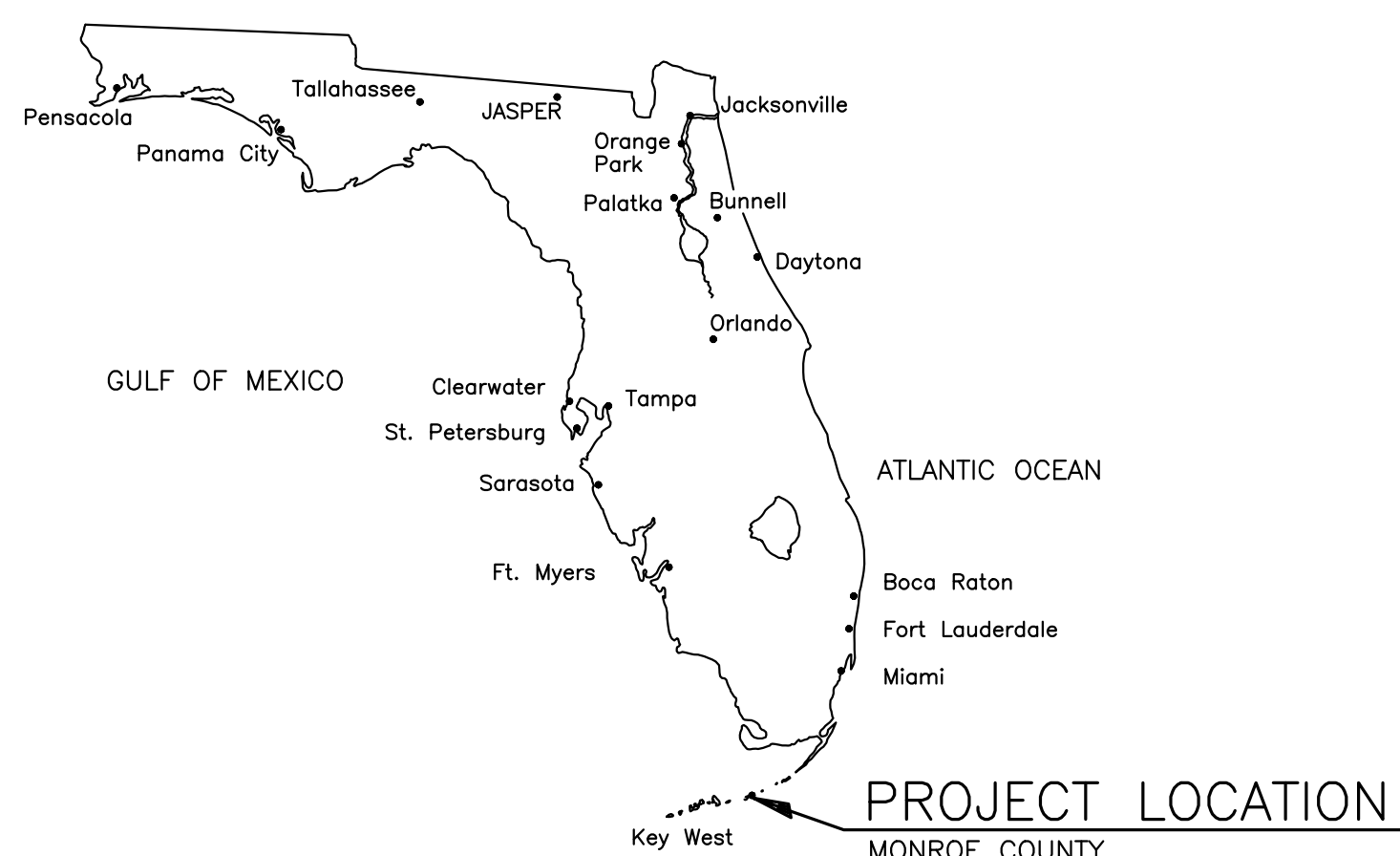


7TH AND SHELTER BAY DRIVE DRAINAGE IMPROVEMENTS, PHASE 1

FOR CITY OF KEY COLONY BEACH, FLORIDA

Project No. M060420.000

Client No. 0604-20-1



FREDDIE FOSTER
MAYOR

JOEY RASPE
VICE-MAYOR

THOMAS HARDING
COMMISSIONER/SECRETARY/TREASURER

TOM DIFRANSICO
COMMISSIONER

DOUG COLONELL
COMMISSIONER

SILVIA GRANSEE
CITY CLERK

JOHN BARTUS
CITY ADMINISTRATOR

D R A W I N G I N D E X

SHEET NO.	SHEET TITLE
1	COVER SHEET
2	GENERAL NOTES, ABBREVIATIONS & LEGEND
3	KEY MAP
4	PRE-DEVELOPMENT PLAN
5	POST-DEVELOPMENT PLAN
6	SITE DEMOLITION PLAN
7	8TH STREET DRAINAGE PLAN
8	SHELTER BAY DRIVE & 7TH STREET DRAINAGE PLAN
N.I.C. 9	7TH STREET DRAINAGE PLAN
N.I.C. 10	7TH STREET DRAINAGE PLAN
11	WET DETENTION POND - GRADING PLAN
N.I.C. 12	GRADING & DRAINAGE PLAN
N.I.C. 13	WET DETENTION POND - PLANTING PLAN
N.I.C. 14	WET DETENTION POND - PLANTING BLOW UP
15	SECTIONS
16	TYPICAL DETAILS
17	TYPICAL DETAILS
18	SWPPP DETAILS
19	SWPPP DETAILS
20	SWPPP DETAILS
N.I.C. 21	WET DETENTION POND - ELECTRICAL SITE PLAN & ONE-LINE DIAGRAM
N.I.C. 22	ELECTRICAL DETAILS



VICINITY MAP



MITTAUER
& ASSOCIATES, INC.
CONSULTING ENGINEERS &
PROJECT FUNDING SPECIALISTS

NOW A PART OF **cph**

THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

Florida License No. 3215

BID SET
05/08/25

GENERAL NOTES

A. GENERAL CONSTRUCTION NOTES

1. Existing underground utilities have been shown from the best available information. The Contractor shall notify the proper Utility Representative prior to commencing excavation near the utility. The Contractor is responsible for locating all utilities in the path of construction. Contractor shall field determine the location, size, and depth of all existing piping. The Contractor shall call the Sunshine State One center (1-800-432-4770).
2. It shall be the sole responsibility of the Contractor to locate and avoid all utilities, structures, and obstructions both above and below the ground surface. All damages resulting from the Contractor's failure to comply with this requirement shall be repaired at the Contractor's expense.
3. Contractor is responsible for supporting/protecting & maintaining all existing improvements (i.e., utilities, utility poles, structures, pavement, sidewalks, monitoring wells, foundations, etc.) which may be damaged/undermined or interrupted as a result of his operations. The Contractor shall immediately notify the Engineer of any such occurrences. The Contractor may be required to shore, sheet, brace, or support work to protect existing improvements. The Contractor shall maintain a minimum of 5 feet of undisturbed soil around all power poles. Where edge of utility trench would be closer than 5 feet from poles, Contractor shall be required to sheet around pole to maintain 5 feet of undisturbed soil. Where 5 feet of undisturbed soil cannot be maintained, Contractor shall make arrangements with power company to have poles held/braced. All costs associated with supporting/protecting existing improvements shall be borne by the Contractor.
4. All existing facilities (e.g., pipes, roadways, sidewalks, landscaping, structure, etc.) not indicated to be disturbed/restored which are disturbed/damaged as a result of the Contractor's operations shall be restored to a condition equal to or better than that which existed prior to construction, at Contractor's expense.
5. Horizontal and vertical controls are subject to adjustments in the field if necessary to avoid utility conflicts upon approval of the Engineer or his representative. Contractor shall not adjust location of pipe or other facilities (either vertically or horizontally) without approval of the Engineer or his representative.
6. Contractor shall provide constant slope between indicated pipe invert elevations, unless otherwise directed by Engineer.
7. Contractor shall not remove any trees of 4-inch diameter or larger without Engineer's approval. Adjustment of pipe location to avoid trees shall be subject to approval of the Engineer. The Engineer makes no claim that any tree will survive construction of the proposed project.
8. The Contractor shall at all times conduct his operations so as to interfere as little as possible with the existing facilities. The Contractor shall develop a program in cooperation with the Owner's operating staff which shall provide for the construction of an putting into service the proposed work in the most orderly manner possible. All work of connection with, cutting into and reconstruction of existing facilities shall be planned so as not to interfere with the existing facility.
9. The Contractor shall provide all traffic control measures necessary to perform the work at his expense. Traffic control shall be in accordance with governing local, state, and federal agencies, including the MUTCD latest edition.
10. Contractor shall provide all fill required to achieve proposed grades at his expense.
11. All aboveground piping shall be properly supported and/or secured to tanks, buildings, or other structures using 316 SS straps and fasteners.
12. All pipe shall have the following minimum cover, unless otherwise directed by Engineer:
Water Service Pipe 30-inches cover at edge of curb
PVC (<3-inch) 30-inches
PVC (≥3-inch) 36-inches
DIP (all sizes) 36-inches
Steel (all sizes) 36-inches
RCP (all sizes) 12-inches
Corrugated Plastic 24-inches
13. Warning tone and tracer wire shall be installed along all water mains, laterals, and force mains, in accordance with the specifications.
14. Contractor shall apply for and obtain FDEP Generic Permit for Large and Small Construction Activities (CGP). The Contractor shall act as the Operator of all temporary construction phase pollution prevention improvements and be responsible for their design, selection, and implementation. Schematic erosion control measures are provided in these documents and shall be the basis of the Contractor's design.
15. During any construction activity, including stabilization and revegetation of disturbed surfaces, the Contractor is responsible for the design, selection, permitting, implementation, and operation on all temporary construction phase erosion and sediment control measures required to retain on-site sediment and prevent violations of the State of Florida water quality standards. The Contractor shall use appropriate best management practices described in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual, July 2013, with revisions. All turbidity/silt barriers must be in place downgradient from the construction zone prior to the start of any construction activity in general accordance with the plans and details provided in these documents. The barriers shall remain in place until all the disturbed areas have been properly stabilized.
16. Maintenance and Operation of the Surface Water Management System: Upon completion of construction of the project, the Contractor shall remove accumulated sediment from the stormwater system including the bottom of the retention basin. The Owner shall mow the grass on the slopes and bottom of the retention basin on a biweekly basis as a minimum and remove thatch, leaves, trash and other debris on an as-needed basis.
17. Relocate existing garbage/trash pads & walls as required to construct project. The Contractor shall coordinate the new location with the City, Engineer and the Property Owner.
18. Improvements made within right-of-way by private citizens such as fence lines, landscaping, pavers, landscaping features, etc. that impede the proposed construction shall be removed to construct project and then restored as near as possible to its original location and shall be equal to or better than its original condition.
19. Remove & replace and/or relocate existing irrigation systems as required to facilitate construction and to continue to irrigate the existing irrigated areas.
20. All traffic signs within the proposed construction shall be removed and then restored to original location upon completion of the work. signs damaged during removal shall be replaced with new signs of the same size and function.
21. The Contractor shall employ the services of a Florida licensed surveyor who shall be responsible for laying out the work and for establishing the following: project temporary benchmarks; elevation lines and grades; and right-of-way and easement limits for construction. Contractor shall also employ the services of a Florida licensed surveyor to obtain the required record drawing information.
22. The Contractor shall employ a land surveyor, registered in the State of Florida, to reference property and restore property corners and land markers which may be disturbed as a result of Contractor's operations.
23. Horizontal control for features on the plans are relative to the NSRS 2011 Florida State Planes, East Zone, US Foot coordinate system.
24. Topographic information based on a survey by Reese & Associates, Inc., Project 24071807, dated 09/06/2024.
25. Contractor shall contact Florida Keys Electric Co-op, (423--693-4829) related to any overhead power and/or power pole hold requirements during construction.

B. GENERAL WATER SYSTEM NOTES

1. All water line work shall be in accordance with FAC 62--555, Permitting and Construction of Public Water Systems and the Florida Keys Aquaduct Authority (FKAA). All materials that come in contact with drinking water shall be in conformance with ANSI/NSF International Standard 61 and shall be installed in accordance with applicable AWWA Standards and/or the manufacturer's recommendations.
2. All water main work shall be performed by the Florida Keys Aquaduct Authority (FKAA).
3. Maintain minimum separation requirements between potable water mains and other utilities.
4. The location of water services, if shown on the plans, are approximate. Actual location of services shall be determined in the field by location of existing water lines, meters, valves and as directed by the Engineer, FKAA and the Owner.
5. All existing water meters, meter boxes, valve boxes, cleanouts, manhole lids, junction boxes or other utility access ports within the proposed construction shall be adjusted, as necessary, to match the new finish grade.

C. GENERAL SEWER SYSTEM NOTES

1. All sewer line work shall be in accordance with FAC 62--600, Domestic Wastewater Facilities and FAC 62--604, Collection Systems and Transmission Facilities.
2. All workmanship, material, testing and as-built drawings shall conform to the latest standards and specifications of the City of Key Colony Beach.
3. The location of sewer services, if shown, on the plans, are approximate. Actual location of services shall be determined in the field by test holing and as directed by the Engineer and the Owner.

D. PAVEMENT STRIPING AND SIGNAGE NOTES

1. Unless otherwise noted on the drawings, all existing signs removed by the construction activity, shall be restored to their original position prior to completion of the project. Any signs damaged during construction shall be replaced at the Contractors expense.
2. All signs and pavement markings shall conform to the Manual on Uniform Traffic Control Devices (MUTCD) and the Florida Department of Transportation Roadway and Traffic Design Standards, latest editions.
3. Sign assembly locations, shown on the plans, which are in conflict with lighting, utilities etc. may be adjusted slightly as directed by the Engineer.
4. Existing signs to be permanently removed shall become the property of the Contractor and disposed of at his expense unless claimed by Owner or governing authority.
5. All pavement striping within Right-of-Way or easements, as well as all stop bars, crosswalks, messages and directional arrows (regardless of location) shall be lead free, thermoplastic paint (FDOT spec. section 711). All other striping shall be reflective paint (FDOT spec. section 710) unless noted otherwise on the drawings.
6. The aluminum column (post) & connection design shall adhere to FDOT index 11860 and the following criteria:
a. mounting height = 14' maximum
b. sign(s) area = 25 sq. ft. maximum
c. sign(s) width: single = 36" maximum
dual = 48" maximum
d. driven post only
e. minimum post diameter = 3"
7. All posts shall be installed plumb.
8. All hardware shall be 316 stainless steel (ASTM F593, ASTM F594, Alloy Group 2, Condition A, CW2 or SH4).

E. ROADWAY NOTES

1. All work performed within the City Right-of-Way shall conform to the most current edition of the following publications:
•Standard Specifications for Road and Bridge Construction.
•FDOT Design Standards.
•FDOT Plans Prep Manual.
•FDOT Flexible Pavement Design Manual for new construction and pavement rehabilitation.
- Should a conflict arise between the details shown in the plans and the Department of Transportation Standards, the Contractor shall immediately confer with the Engineer in order to resolve the discrepancy.
2. Removal of existing striping shall be accomplished using the "hydro-blast" method. If this process damages or scars pavement, the pavement shall be milled and resurfaced per FDOT standards.
3. Burning of any material or debris is prohibited.
4. All lanes must be opened for traffic during an evacuation notice of a hurricane or other catastrophic event and shall remain open for the duration for the evacuation or event.

ABBREVIATIONS

ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
ABS	ACRYLONITRILE BUTADIENE STYRENE	MAINT	MAINTAIN OR MAINTENANCE
ABV	ABOVE	MAN	MANUAL(LY)
ACP	ASBESTOS CEMENT PIPE	MAX	MAXIMUM
AFT	ABOVE FINISH FLOOR (REF. ELEV.)	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISH GRADE (REF. ELEV.)	MES	MITERED END SECTION
ALUM	ALUMINUM	MECH	MECHANICAL
ALT	ALTERED	MFR	MANUFACTURE
APRX	APPROXIMATE(LY)	MG	MILLION GALLON(S)
ARCH	ARCHITECT(URAL)	MGD	MILLION GALLONS PER DAY
ARP	AIR RELEASE VALVE	MH	MANHOLE
ASPH	ASPHALT	MHW	MEAN HIGH WATER
ASSTY	ASSEMBLY	MNI	MINIMUM INCHES
BE	BURIED ELECTRIC	MISC	MISCELLANEOUS
BF	BOTTOM FACE	NJ	MECHANICAL JOINT
BFI	BURIED FIBER OPTIC	MON	MONUMENT
BFV	BUTTERFLY VALVE	MPH	MILES PER HOUR
BITUM	BITUMINOUS OR BITUMASTIC	MPT	MALE PIPE THREAD
B	BUILDING	MTD	MOUNTED
BLDG	BLOCK	MW	MANWAY; MONITORING WELL
BLK	BLOCK	N	NORTH
BM	BENCH MARK	NE	NORTHEAST
BOC	BACK OF CURB	NIC	NOT IN CONTRACT; NOT INCLUDED
BOT	BOTTOM	NOM	NOMINAL
BT	BURIED TELEPHONE--CABLE	No	NUMBER
BV	BALL VALVE	NPT	NATIONAL PIPE THREAD
BN	BOTH WAYS	NPW	NON-POTABLE WATER
C, CND	CONDUIT	NTS	NOT TO SCALE
CAP	CAPACITY	N/A	NORTHWEST
CATV	CABLE TELEVISION	N/A	NOT APPLICABLE
CFM	CUBIC FEET PER MINUTE	OA	OVERALL DIMENSION
CFS	CUBIC FEET PER SECOND	OC	ON CENTER
CD	CAST IRON PIPE, CAST-IN-PLACE	OD	OUTSIDE DIAMETER
CIP	CENTERLINE	OF	OUTSIDE FACE
CLF	CHAIN LINK FENCE	OH	OVER HEAD
CLR	CLEAR OR CLEARANCE	OHV	OVER HEAD ELECTRIC
CONC	CONCRETE MONUMENT	OPT	OPTIONAL
CMP	CORRUGATED METAL PIPE	O&M	OPERATION AND MAINTENANCE
CMU	CONCRETE MASONRY UNIT	PAVT	PAVEMENT
CNR	CORNER	PC	POINT OF CURVE
CO	CLEAN OUT	PE	PLAIN END
CONC	CONCRETE	PI	POINT OF INTERSECTION
CONT	CONTINUOUS	PL	PLATE
COV	COVERED	PLF	POUNDS PER LINEAR FOOT
CPGL	CORUGATED POLYETHYLENE PIPE	POB	POINT OF BEGINNING
CPCV	CHLORINATED POLYVINYL CHLORIDE	PP	POWER POLE
CUL	CULVERT	PPD	POUNDS PER DAY
CV	CHECK VALVE	PPM	PARTS PER MILLION
CY	CUBIC YARD	PRFS	PRESSURE
C/C	CENTER TO CENTER	PRV	PRESSURE REDUCING VALVE
DBL	DOUBLE	PS	PUMP STATION
DEMO	DEMOLITION	PSF	POUNDS PER SQUARE FOOT
DIA	DIAMETER	PSI	POUNDS PER SQUARE INCH
DIM	DIMENSION	PSIA	POUNDS PER SQUARE INCH ABSOLUTE
DIP	DUCTILE IRON PIPE	PSIG	POUNDS PER SQUARE INCH GAGE
DOT	DEPARTMENT OF TRANSPORTATION	PT	POINT OF TANGENCY
DR	DRAIN	PV	PLUG VALVE
DW	DRIVEWAY	PVC	POLYVINYL CHLORIDE
DWG	DRAWING	PW	POTABLE WATER/LVIAN
EA	EACH	PWR	POWER
ECC	ECCENTRIC	Q	QUANTITY
ECH	EACH	R, RAD	RADIUS
EL, ELEV	ELEVATION	RC	REINFORCED CONCRETE PIPE
ELEC	ELECTRIC(AL)	RD	ROAD
EMERG	EMERGENCY	RED	REDUCER
EP	EDGE OF PAVEMENT	REBAR	REINFORCING STEEL BARS
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	REF	REFERENCE
EQIP	EQUIPMENT	REINFD	REINFORCED(D)(ING)(MENT)
ESMT	EASEMENT	REQD	REQUIRED
EST	ESTIMATE(D)	REST	RESTRAINED
EW	EACH WAY	ROOM	ROOM
EXP	EXPANSION	RPM	REVOLUTIONS PER MINUTE
EX, EXIST	EXISTING	RR	RAILROAD
EXT	EXTERIOR	RT	RIGHT
EXT	EXTENSION	RAW	RAW WATER
FB	FLOOR DRAIN	R/W	RIGHT-OF-WAY
FD	FOUNDATION	S	SEWER, SOUTH
FDOT	FLORIDA DEPARTMENT OF TRANSPORTATION	SAN	SANITARY SEWER
FF	FINISH FLOOR	SCHED	SCHEDULE
FI	FIRE HYDRANT	SE	SOUTHEAST
FIG	FIGURE	SECT	SECTION
FIN	FINISH(ED)	SF	SQUARE FOOT OR FEET
FIN GR	FINISH GRADE	SHT	SHEET(ED)(ING)
FJ	FLANGED JOINT	SI	SLIP JOINT
FL	FLANGE(D)	SLV	SLEEVE
FM	FEET PER MINUTE	SP	SERVICE POLE, DROP POLE
FPM	FEET PER MINUTE	SPEC	SPECIFICATION
FPS	FEET PER SECOND	SQ	SQUARE
FPT	FEMALE PIPE THREAD	SR	STATE ROAD
FRP	FIBERGLASS REINFORCED PLASTIC	SS	SANITARY SEWER, STAINLESS STEEL
FT	FOOT OR FEET	ST	STREET
FW	FINISHED WATER	STA	STATION
F/F	FACE TO FACE	STD	STANDARD
G	GAS	STL	STEEL
GAL	GALLON(S)	STRUCT	STRUCTURAL
GALV	GALVANIZED	SW	SOUTHWEST
GIP	GALVANIZED IRON PIPE	SWD	SYMMETRICAL DEPTH
GND	GROUND	SYN	SYMBOL
GPD	GALLONS PER DAY	SYM	SYMMETRICAL
GPH	GALLONS PER HOUR	S/W	SIDEWALK
GPM	GALLONS PER MINUTE	TAN	TANGENT
GPS	GALLONS PER SECOND	TB	TEMPORARY BENCH MARK
GR	GRADE	TC, TOC	TOP OF CONCRETE
GS	GALVANIZED STEEL	TDH	TOTAL DYNAMIC HEAD
GSP	GALVANIZED STEEL PIPE	TEL	TELEPHONE
GV	GATE VALVE	TEMP	TEMPORARY
HB	HOSE BIBB	TF	TOP FACE
HGT	HEIGHT	THD	THREADED JOINT
HR	HAND RAIL	THK	THICK(NESS)
HQA	HAND-OFF-AUTO SWITCH	TOB	TOP OF BANK
HORIZ	HORIZONTAL	TOE	TOE OF SLOPE
HP	HORSEPOWER	TOS	TOE OF SLOPE; TOP OF STEEL
HR	HEATING, VENTILATION, AND AIR CONDITIONING	TP	TELEPHONE POLE, TOP OF PAVEMENT
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	TV	TELEVISION
HWL	HIGH WATER LEVEL	TYP	TYPICAL
ID	INSIDE DIAMETER	T&B	TOP AND BOTTOM
IF	INSIDE FACE	UG	UNDERGROUND
IN	INCHES	UGE	UNDERGROUND ELECTRIC
INF	INFLUENT	UN	UNION
INT	INTERSECTION	UTIL	UTILITY
INTR	INTERIOR	V	VOLTS
INV	INVERT	VAC	VACUUM
IPS	INTERNATIONAL PIPE STANDARD; IRON PIPE SIZE	VAR	VARIABLE
JB	JUNCTION BOX	VEL	VELOCITY
JT	JOINT	VFD	VARIABLE FREQUENCY DRIVE
K	KIP(1,000 LB)	VOL	VOLUME
KVA	KILOVOLT--AMPERE	W	WATER, WEST
KW	KILOWATT	WL	WATER LINE
L	LEFT	WM	WATER METER
LAB	LABORATORY	WS	WATER SURFACE
LAV	LAVATORY	WTP	WATER TREATMENT PLANT
LB	POUND	WT	WEIGHT
LF	LINEAR FEET	WWF	WELDED WIRE FABRIC
LP	LIGHT POLE	WWM	WELDED WIRE MESH
LR	LONG RADIUS	WMT	WASTEWATER TREATMENT PLANT
LUMP SUM	LUMP SUM	W/	WITH
LWL	LOW WATER LEVEL	W/O	WITHOUT
		XFER	TRANSFER
		YFMR	TRANSFORMER
		YD	YARD(S)
		YR	YEAR(S)

PROPOSED

---8"---
---4"---
---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

EXISTING

---8"---
---4"---
---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

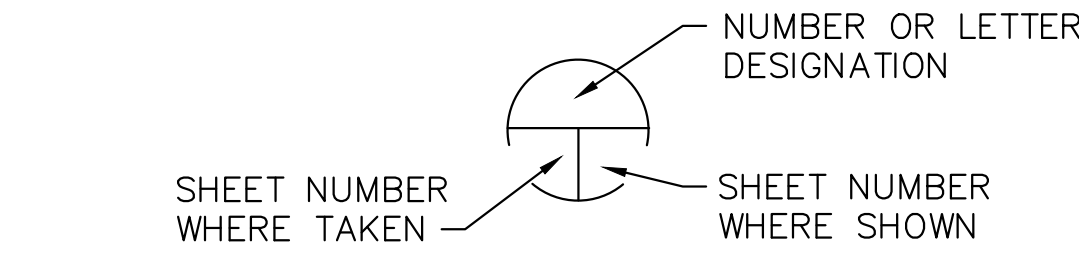
---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)

---(CPP)
---(PERF PVC)



DETAIL/SECTION KEY

PROJECT CONTACTS				
TYPE	COMPANY	ADDRESS	PHONE	CONTACT PERSON
ELECTRIC	FLORIDA KEYS ELECTRIC COOPERATIVE	P.O. BOX 377 TAVERNIER, FL 33070	(305) 852-2431 EXT. 125	BRYAN HESS
TELEPHONE	AT&T	1120 S. ROGERS CIR. BOCA RATON, FL 33487	(561) 997-0240	DINU FARRUGARDU
CABLE	COMCAST	2601 SW 145TH AVE MIRAMAR, FL 33027	(754) 221-1254	LEONARD MAXWELL-NEWBOLD
WATER	FLORIDA KEYS AQUADUCT AUTHORITY	1100 KENNEDY DRIVE KEY WEST, FL 33040	(305) 295-2154	MARNIE WALTERSON
SEWER	CITY OF KEY COLONY BEACH, FLORIDA	600 WEST OCEAN DR. KEY COLONY BEACH, FL 33051	(305) 289-1212	FREDDIE FOSTER MAYOR
OWNER	CITY OF KEY COLONY BEACH, FLORIDA	600 WEST OCEAN DR. KEY COLONY BEACH, FL 33051	(305) 289-1212	FREDDIE FOSTER MAYOR
DESIGN ENGINEER	MITTAUER & ASSOCIATES, INC.	580-1 WELLS ROAD ORANGE PARK, FL 32073	(904) 278-0030	MICHAEL P. TIBBLE, P.E.

DESG	MPT	MAL	JRS
DRWN	DES	DES	DES
PROJ	PROJ	PROJ	PROJ
MGR	MGR	MGR	MGR
DATE	05/09/25	DATE	05/09/25

Florida License
No. 3215

MITTAUER & ASSOCIATES, INC.
REGISTERED PROFESSIONAL ENGINEERS
PROJECT FUNDING SPECIALISTS

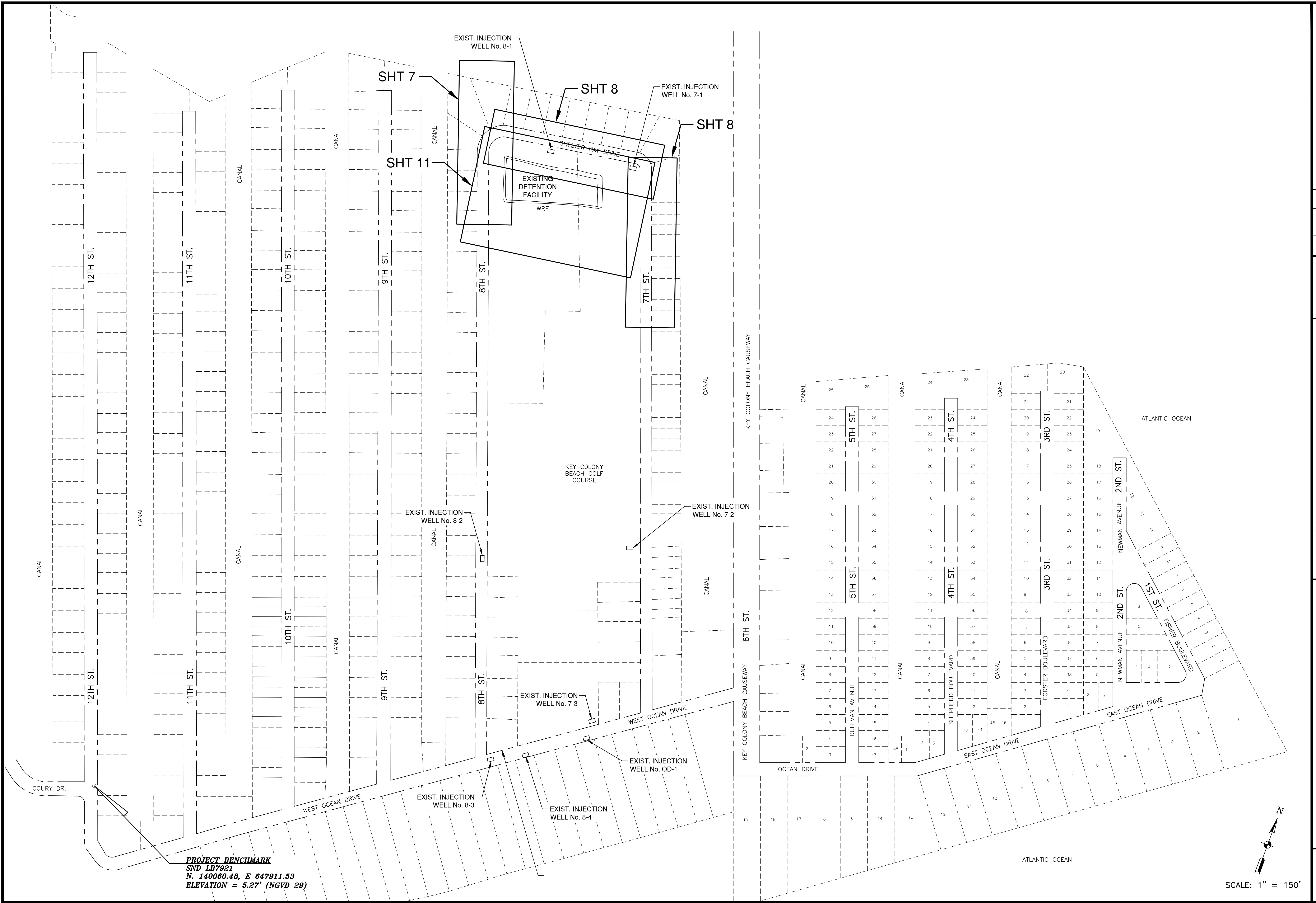
NOW A PART OF

THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive
General Notes, Abbreviations & Legend
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.

J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\SH3.dwg, 5/8/2025 8:38:51 AM



PROJECT BENCHMARK
SND LB7921
N. 140060.48, E. 647911.53
ELEVATION = 5.27' (NGVD 29)

SCALE: 1" = 150'

DESIGN		MPT		MAL		JRS		NO		DATE		BY		REVISION DESCRIPTION	
DRWN		MPT		MAL		JRS		NO		DATE		BY		REVISION DESCRIPTION	
PROJ		MPT		MAL		JRS		NO		DATE		BY		REVISION DESCRIPTION	
MGR		MPT		MAL		JRS		NO		DATE		BY		REVISION DESCRIPTION	
DATE		05/09/25		05/09/25		05/09/25		05/09/25		05/09/25		05/09/25		05/09/25	
1		1		1		1		1		1		1		1	

MITTALUER & ASSOCIATES, P.A.
FLORIDA LICENSE NO. 3215
NOW A PART OF **epb**
THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
Key Map
Monroe County, Florida

JOB NO. 0604-20-1
SHEET NO. 3

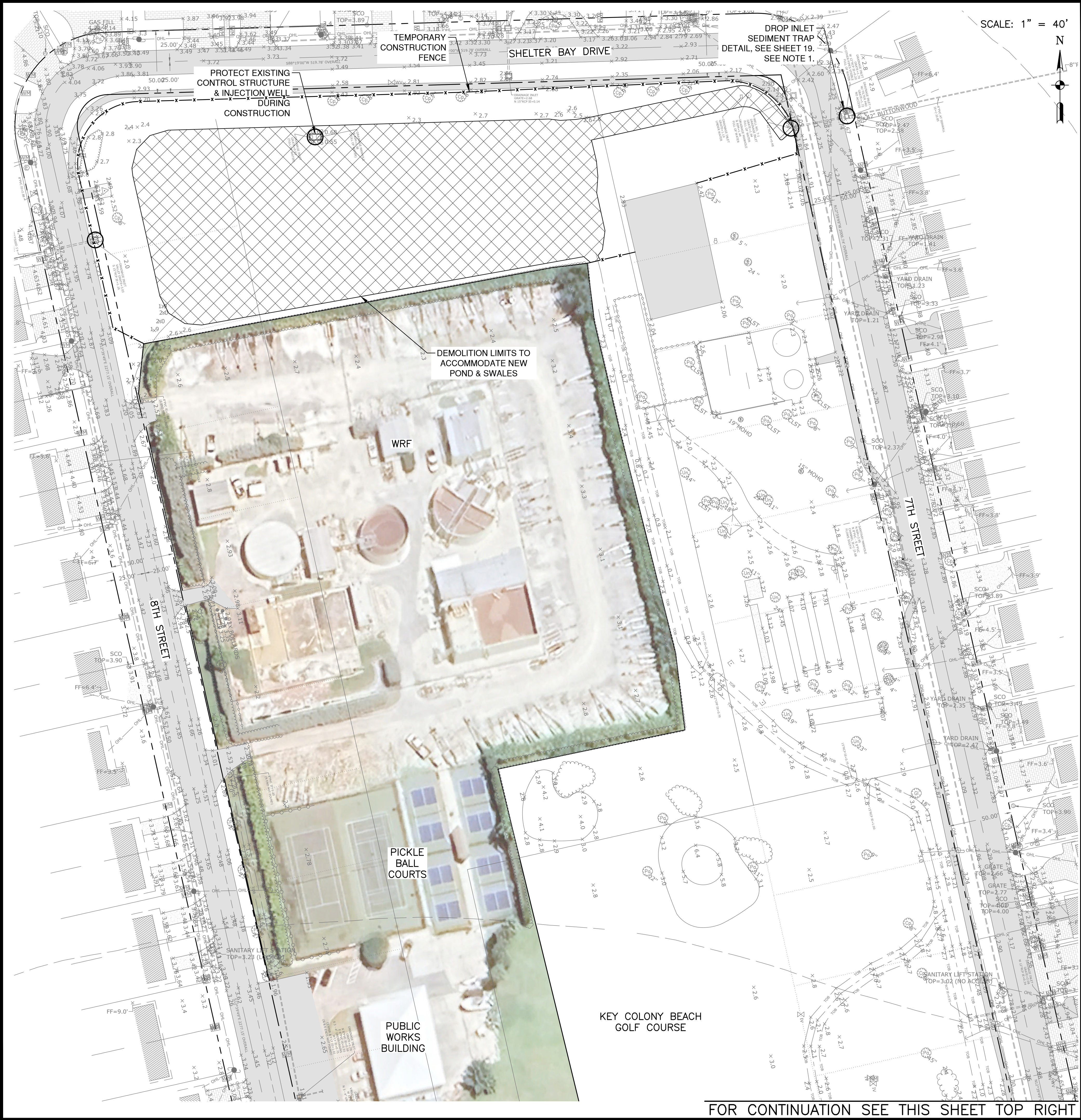
J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\SH4-5.dwg, 5/6/2025 8:39:00 AM



CITY OF KEY COLONY BEACH 7th and Shelter Bay Drive Drainage Improvements, Phase 1 Pre-Development Plan Monroe County, Florida		JOB NO. 0604-20-1 SHEET NO. 4	
 MITTAUER & ASSOCIATES, INC. PROJECT FUNDING SPECIALISTS NOW A PART OF  THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.		Florida License No. 3215	
DESIGNER MPT	PROJECT MANAGER MAL	DATE 05/09/25	1 INCH
DRW	JRS	NO	BY
REVISION DESCRIPTION		DATE	

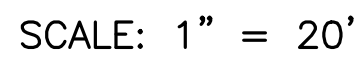
J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\SH4-5.dwg, 5/6/2025 8:39:06 AM



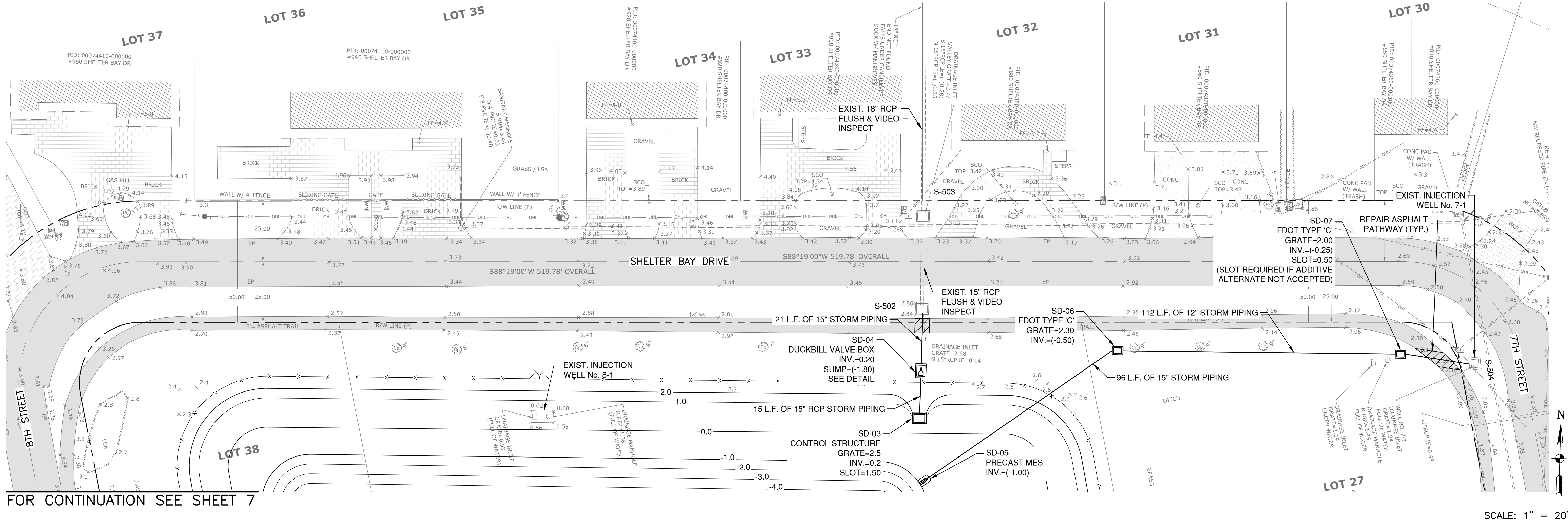


FOR CONTINUATION SEE THIS SHEET TOP RIGHT

CITY OF KEY COLONY BEACH 7th and Shelter Bay Drive Drainage Improvements, Phase 1 Site Demolition Plan Monroe County, Florida		 MITTAUER & ASSOCIATES, INC. REGISTERED PROFESSIONAL ENGINEERS PROFESSIONAL LICENSE NO. 3215 NOW A PART OF <i>epi</i>		DESIGN MPT DRAWN MAL PROJ. JRS DATE 05/09/25		1 INCH		REVISION DESCRIPTION	
JOB NO. 0604-20-1 SHEET NO.	6	THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.				NO DATE BY			



J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\SH7-10.dwg, 5/8/2025 8:39:43 AM



REVISION DESCRIPTION	
NO	DATE

DESIGN	DATE	BY
MPT	05/09/25	
DRWN		
MR.		

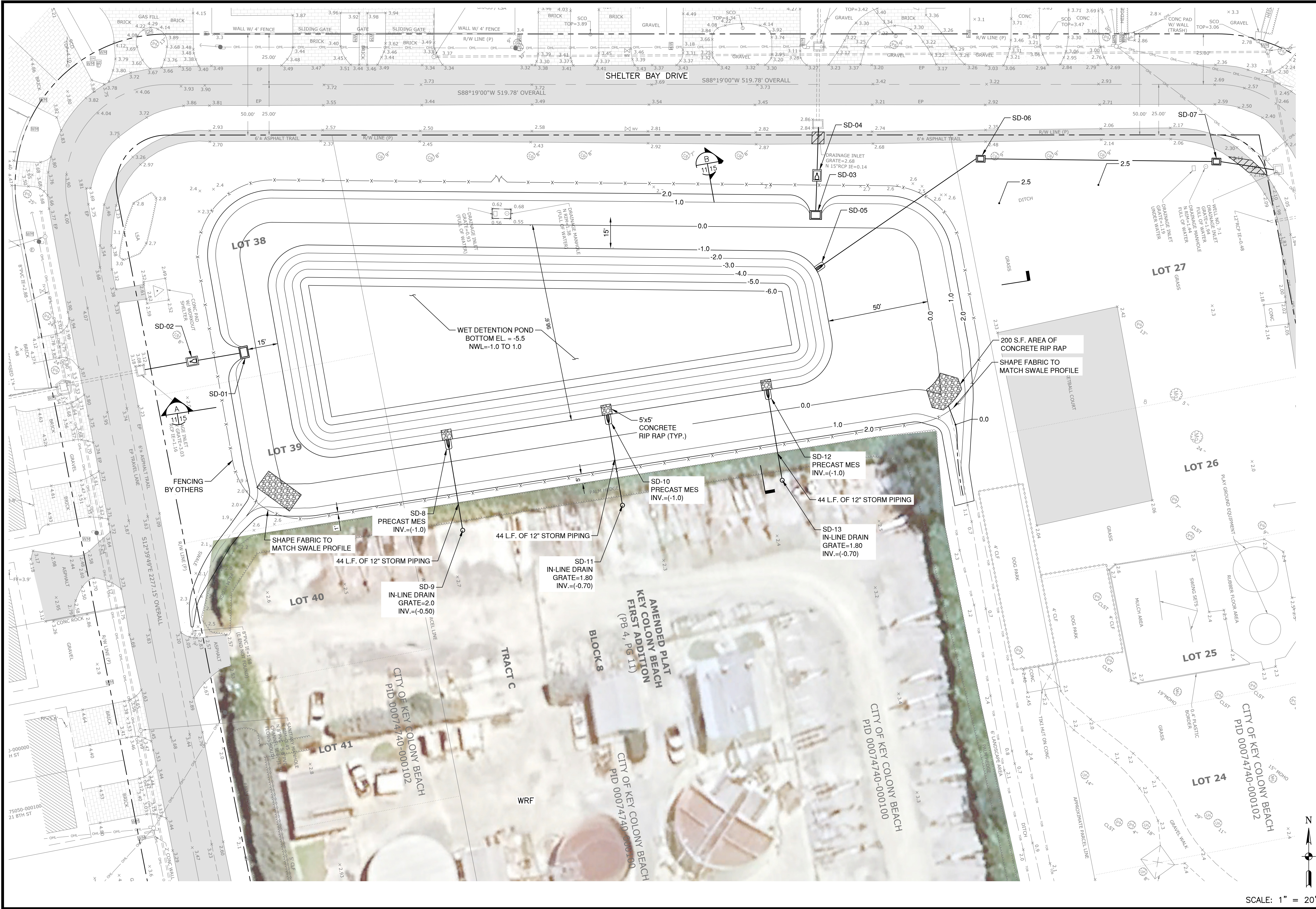
MITTALDER & ASSOCIATES, P.C.
FLORIDA LICENSE NO. 3215
PROJECT FUNDING SPECIALISTS
NOW A PART OF **epi**

THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
Shelter Bay Drive & 7th Street Drainage Plan
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.
08

J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\HT11-15.dwg, 5/6/2025 8:40:19 AM



REVISION DESCRIPTION	
NO	DATE

DESIGN	DATE	BY
MPT	05/09/25	
JRS		

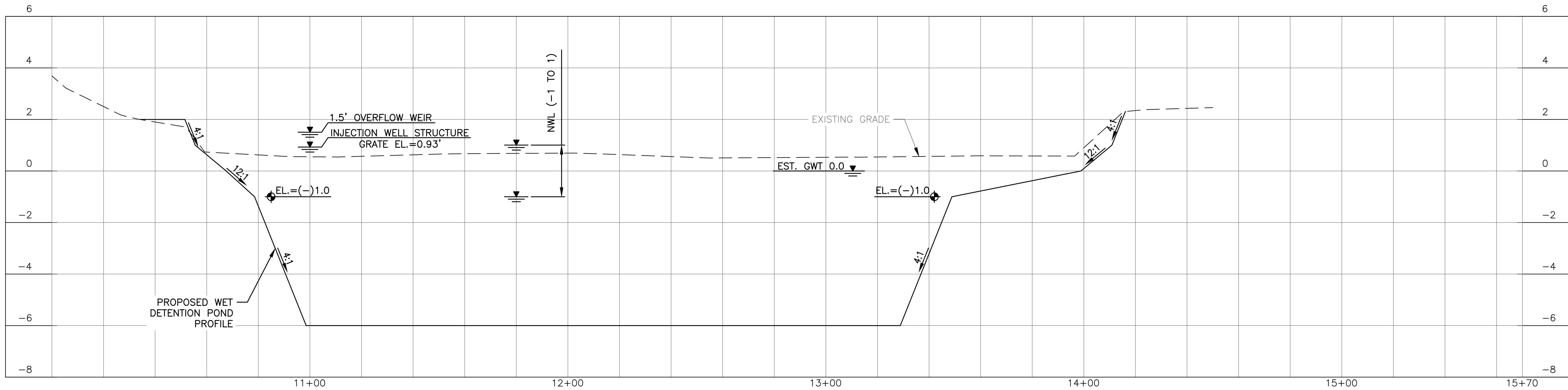
1" = 20'

MITTALDER & ASSOCIATES, P.C.
Florida License No. 3215
NOW A PART OF **epb**
THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

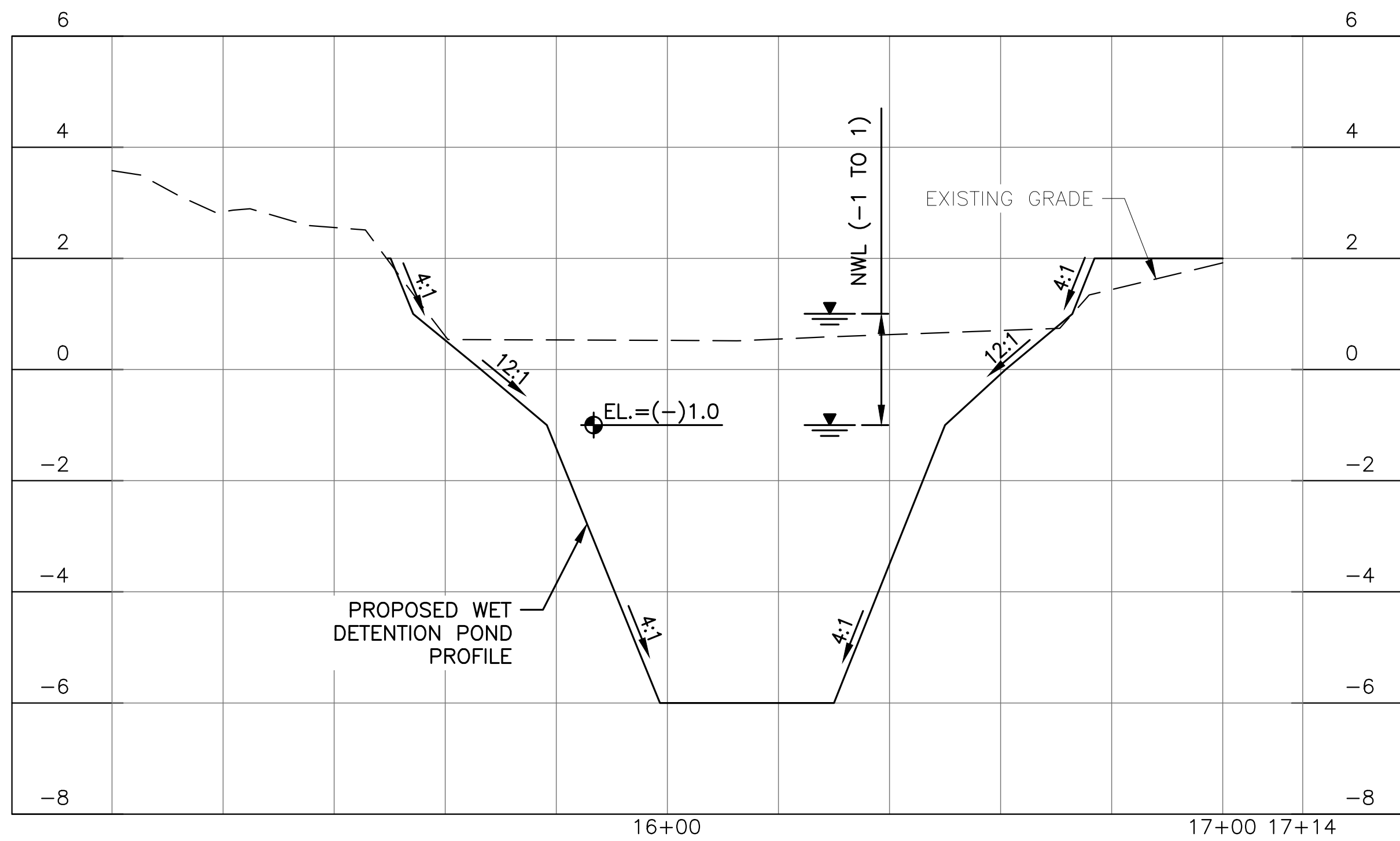
CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
Wet Detention Pond — Grading Plan
Monroe County, Florida

JOB NO. 0604-20-1
SHEET NO. 11

J:\OrangePark\CAD Files\Key Colony Beach\0604201 7th and Shelter Bay Drive Drainage Improvements\Design\SH11-15.dwg, 5/8/2025 8:40:58 AM



POND PROFILE
SCALE: 1"=20' H
1"=2' V



POND PROFILE
SCALE: 1"=20' H
1"=2' V

DESIGN		MPT		MAL		JRS		DATE		NO		DATE		BY		REVISION DESCRIPTION	
DRWN		MPT		MAL		JRS		05/09/25									
MGR		MPT		MAL		JRS											

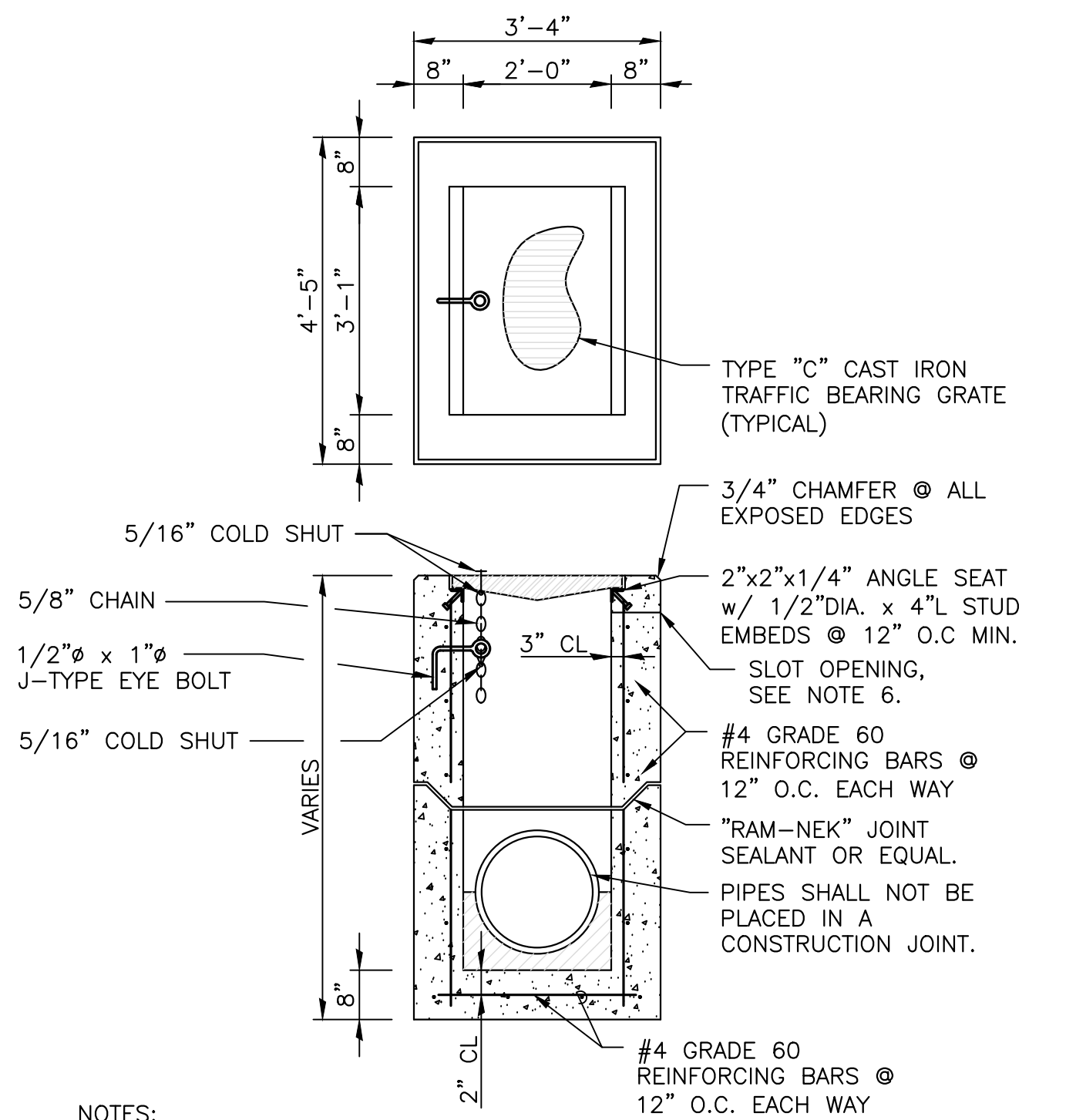
MITTALUER & ASSOCIATES, INC.
PROJECT FUNDING SPECIALISTS
NOW A PART OF *epi*
THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

Florida License No. 3215

CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
Sections
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.
15

J:\OrangePark\CAD Files\Key Colony Beach\Design\Improvements\Design\SH16-17.dwg, 5/8/2025 8:41:04 AM

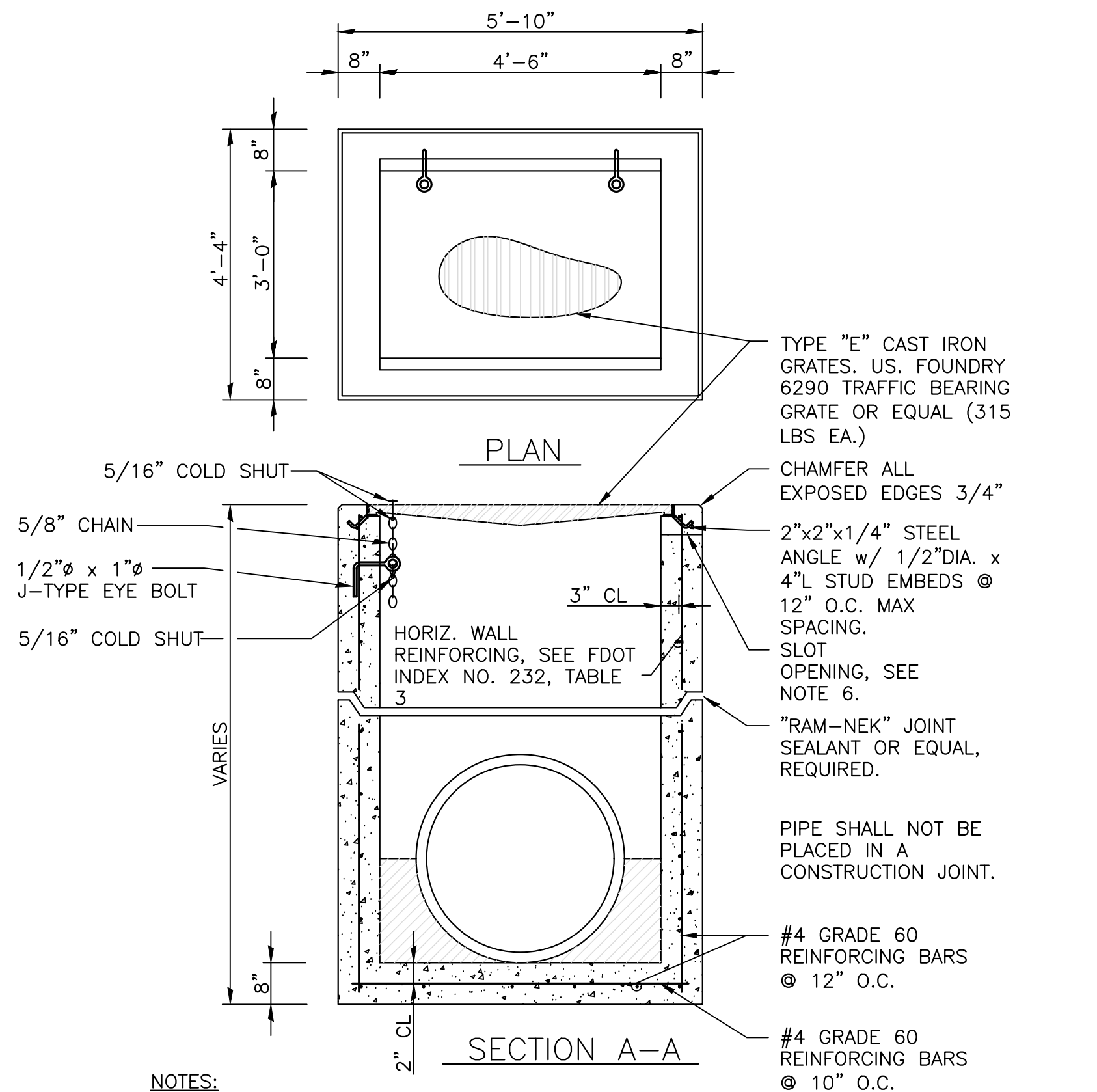


NOTES:

1. CONCRETE SHALL HAVE A MINIMUM DESIGN STRENGTH OF 4,000 PSI.
2. MINIMUM SOIL BEARING CAPACITY OF 2,000 PSF.
3. GRATE DESIGN FLOW RATE 5 CFS (50% CLOGGED).
4. STRUCTURE SHALL MEET ALL STANDARDS FOR AN FDOT TYPE "C" INLET.
5. MAXIMUM PIPE SIZES:
2'-0" WALL - 18" PIPE
3'-1" WALL - 24" PIPE
6. WHERE SLOTS ARE REQUIRED, THE SLOT SHALL EXTEND THE FULL WIDTH OF THE WALL, UNLESS NOTED OTHERWISE. EACH OPENING SHALL BE PROTECTED BY #4 HORIZONTAL REBAR @ 4" O.C. SLOT PROTECTION IS NOT REQUIRED AT A POND CONTROL STRUCTURE.
7. GRATE BEARING SHALL BE FULLY SUPPORTED BY A SEAT ANGLE ACROSS THE OPENING.

TYPICAL TYPE "C" INLET STRUCTURE

1/2" = 1'-0"

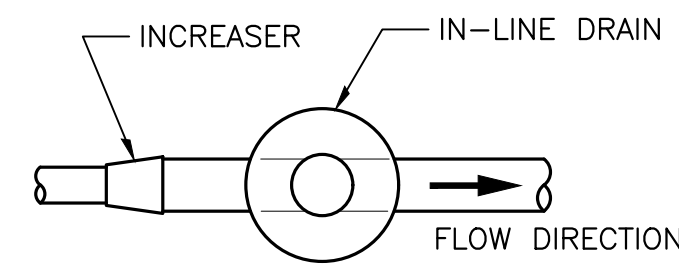
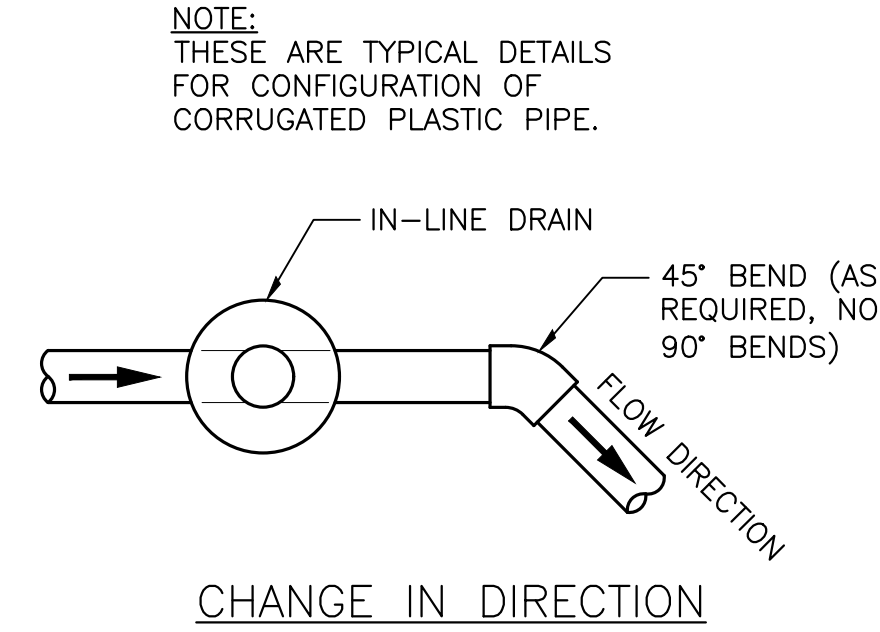


NOTES:

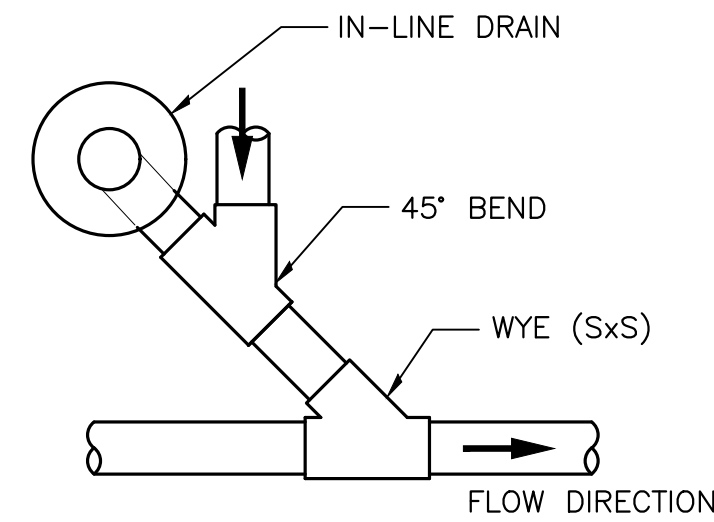
1. CONCRETE SHALL HAVE A MINIMUM STRENGTH OF 4,000 PSI.
2. SOIL SHALL HAVE MINIMUM BEARING CAPACITY OF 2,000 PSF.
3. STRUCTURE SHALL MEET ALL STANDARDS FOR FDOT TYPE "E" INLET STRUCTURES.
4. DESIGN FLOW RATE (50% CLOGGED) = 10 CFS
5. MAXIMUM PIPE SIZES:
3'-0" WALL - 24" PIPE
4'-6" WALL - 36" PIPE
6. ALL SLOTS SHALL BE 18" WIDE.
7. WHERE SLOTS ARE REQUIRED, THE SLOT SHALL EXTEND THE FULL WIDTH OF THE WALL, UNLESS NOTED OTHERWISE. EACH OPENING SHALL BE PROTECTED BY #4 HORIZONTAL REBAR @ 4" O.C. SLOT PROTECTION IS NOT REQUIRED AT A POND CONTROL STRUCTURE.

TYPICAL TYPE "E" FDOT INLET STRUCTURE

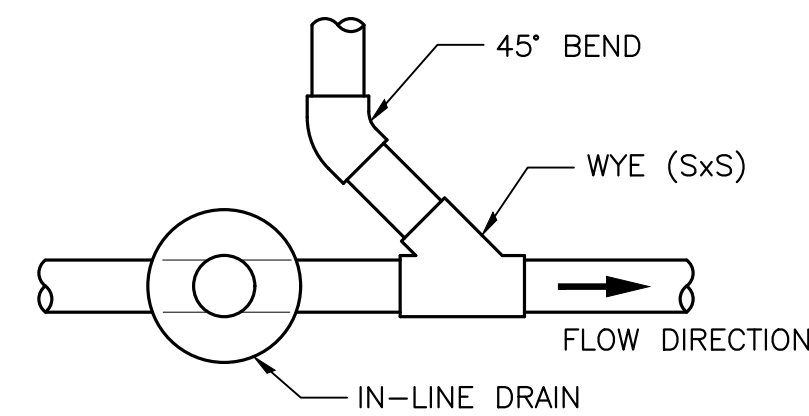
1/2" = 1'-0"



INCREASE IN PIPE SIZE



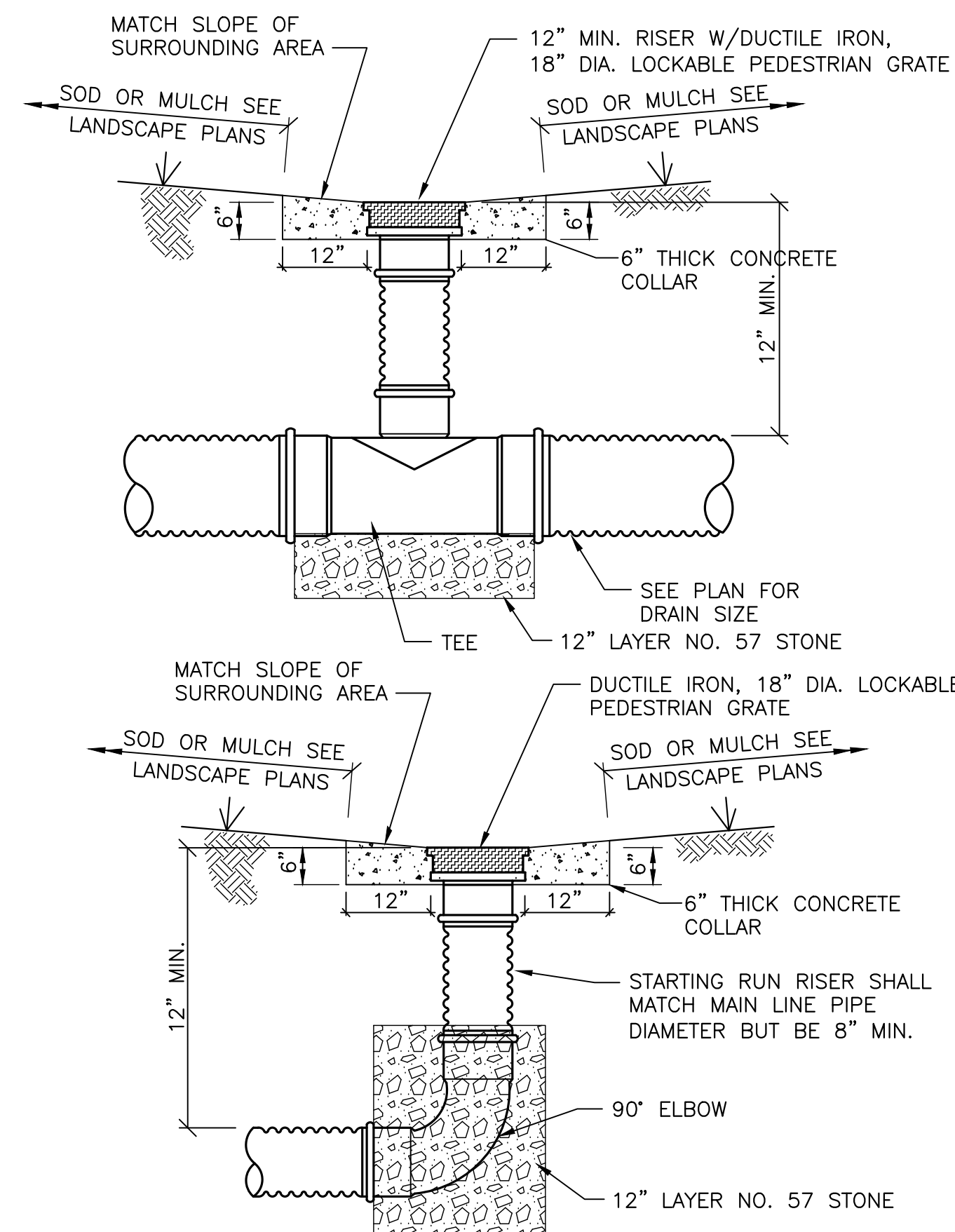
TIE-IN / JUNCTION



TIE-IN / JUNCTION

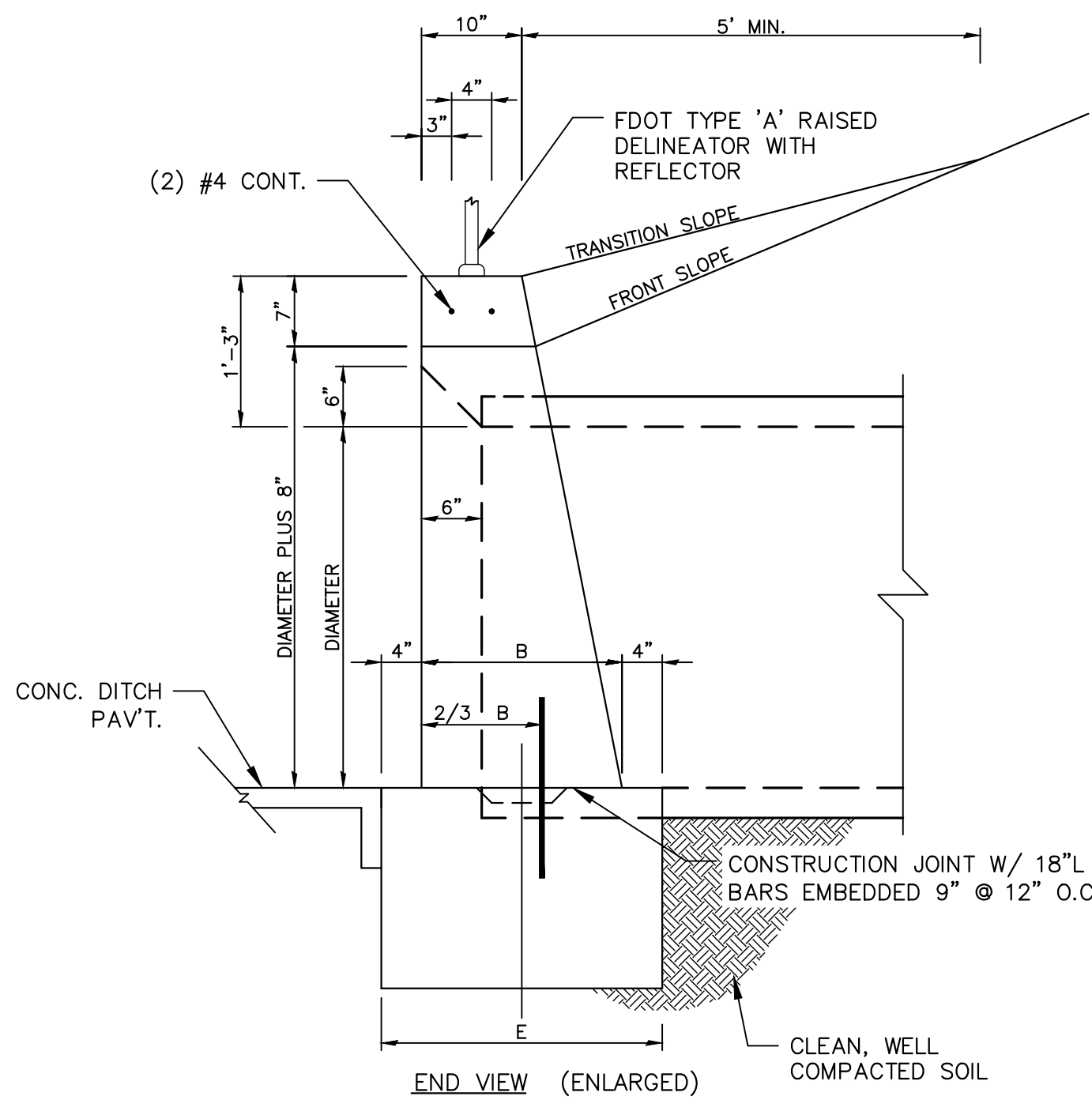
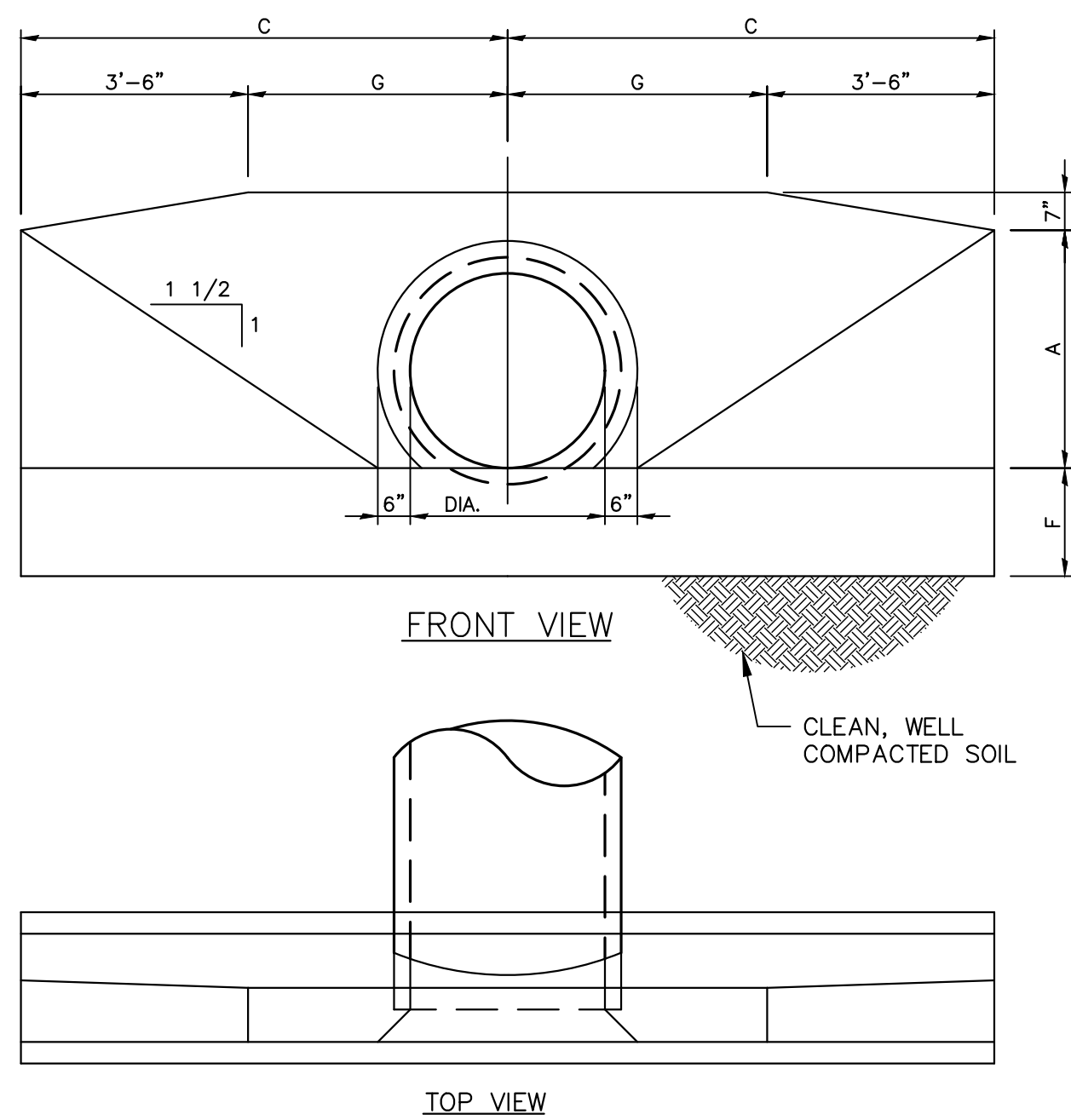
TYPICAL IN-LINE DRAIN CONNECTION DETAILS

NTS



TYPICAL PVC IN-LINE DRAIN

NTS



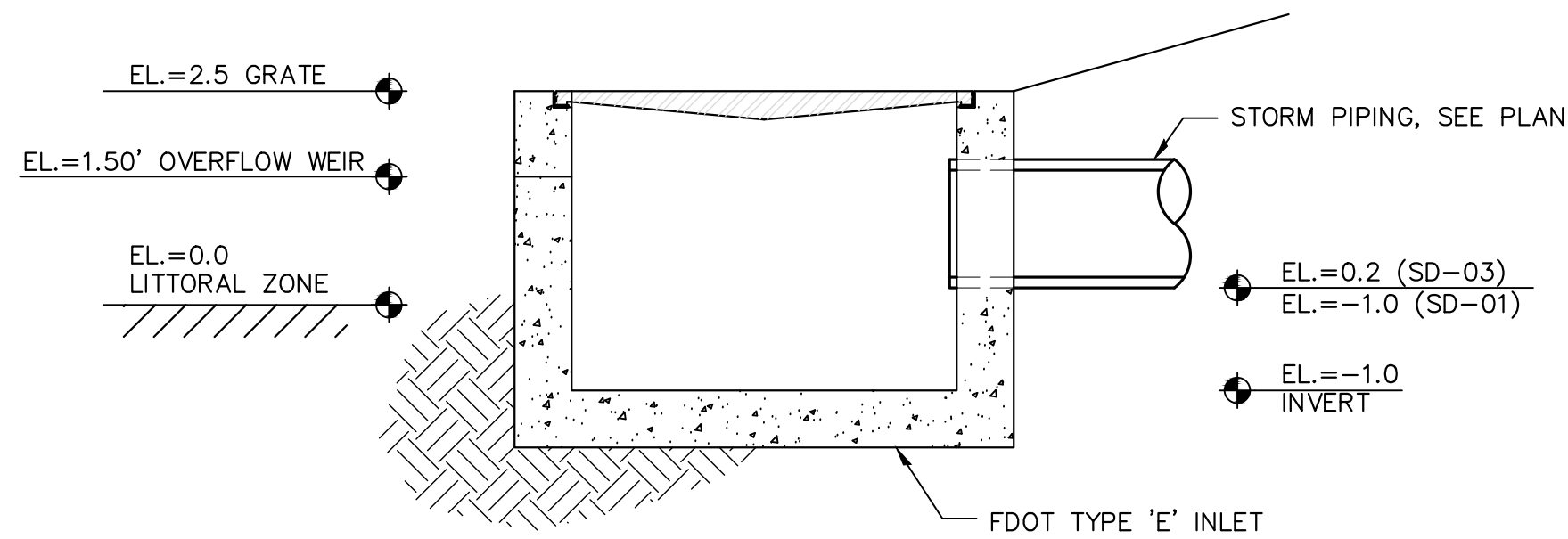
STRAIGHT CONCRETE HEADWALL

NTS

NOTES:

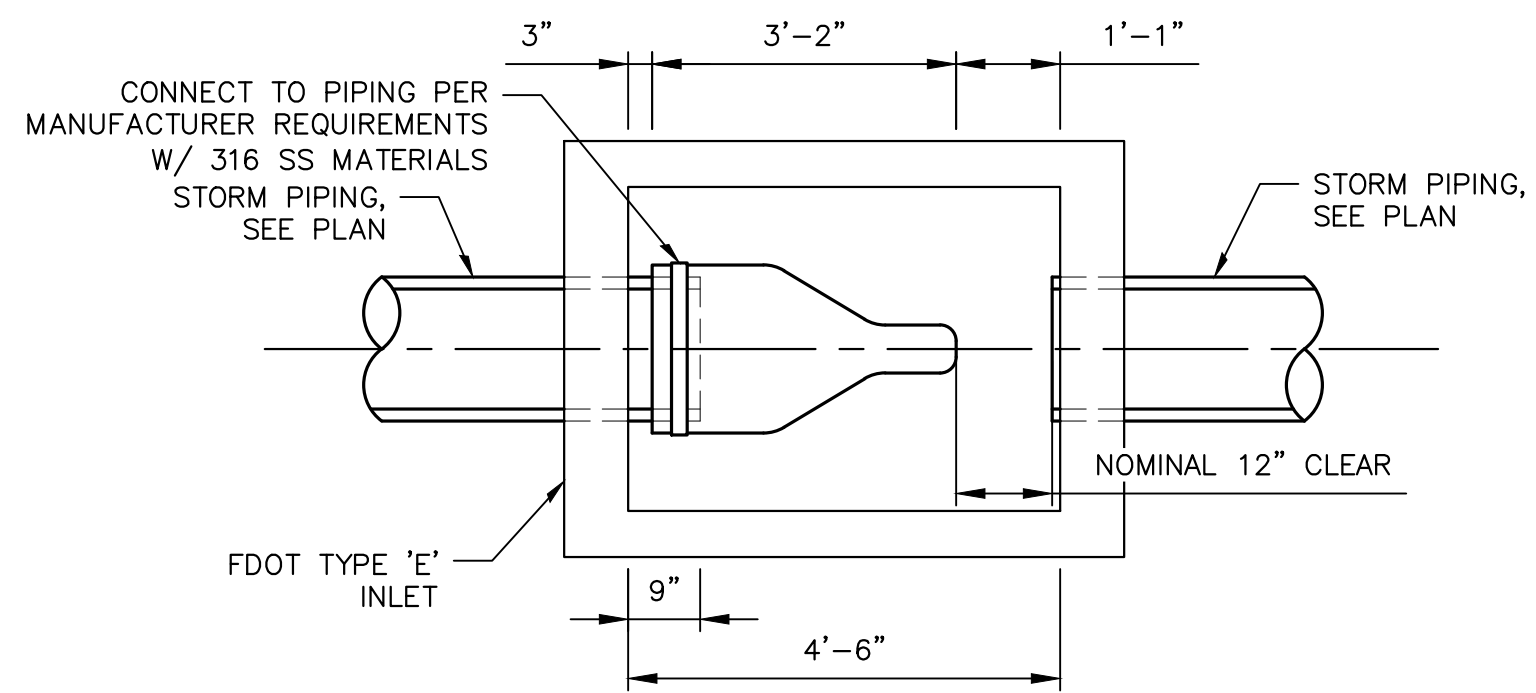
1. ENDWALLS MAY BE CAST IN PLACE OR PRECAST CONCRETE. REINFORCING STEEL SHALL BE GRADE 60. ADDITIONAL STEEL FOR THE HANDLING OF PRECAST UNITS SHALL BE DETERMINED BY THE CONTRACTOR OR THE SUPPLIER.
2. ALL EXPOSED CORNERS AND EDGES OF CONCRETE ARE TO BE CHAMFERED 3/4".
3. CONCRETE SHALL MEET THE REQUIREMENTS OF ASTM C-478 FOR PRECAST UNITS AND HAVE A MINIMUM STRENGTH OF 4,000 PSI REGARDLESS OF CONSTRUCTION TYPE.

DIA.	OPENING AREA	DIMENSIONS									
		NUMBER OF PIPES				A	B	C	E	F	G
15"	1.23	2.46	3.69	4.92	1'-11"	1'-2"	4'-0"	1'-10"	1'-2"	0'-6"	2'-7"
18"	1.77	3.54	5.31	7.08	2'-2"	1'-3"	4'-6"	1'-11"	1'-3"	1'-0"	2'-10"
24"	3.14	6.28	9.42	12.56	2'-8"	1'-4"	5'-6"	2'-0"	1'-4"	2'-0"	3'-5"
36"	7.07	14.14	21.21	28.28	3'-8"	1'-8"	7'-6"	2'-4"	1'-8"	4'-0"	5'-1"
42"	9.62	19.24	28.86	38.48	4'-2"	1'-10"	8'-6"	2'-6"	2'-0"	6'-0"	6'-0"

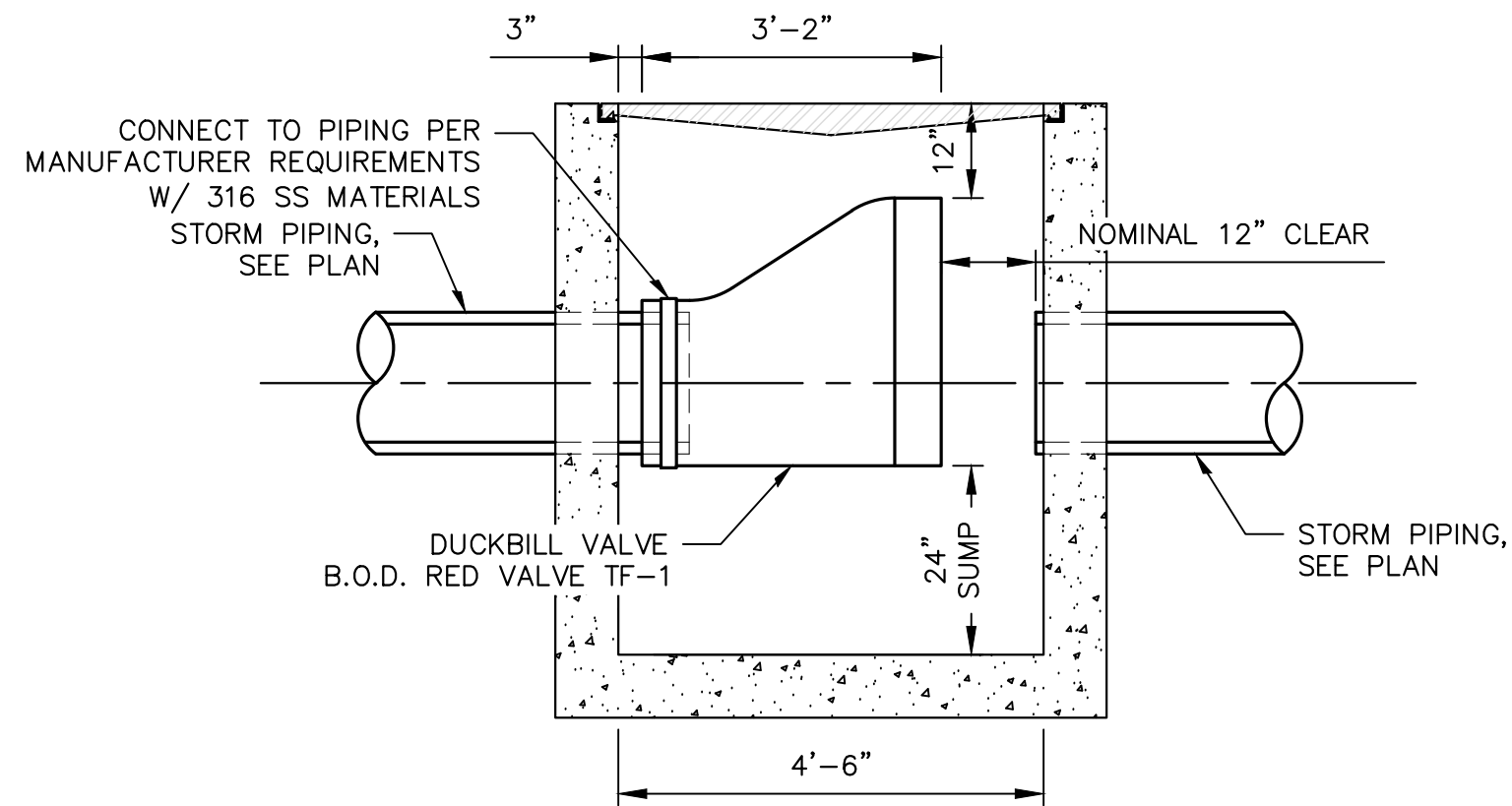


POND OVERFLOW STRUCTURE DETAIL

1/2" = 1'-0"



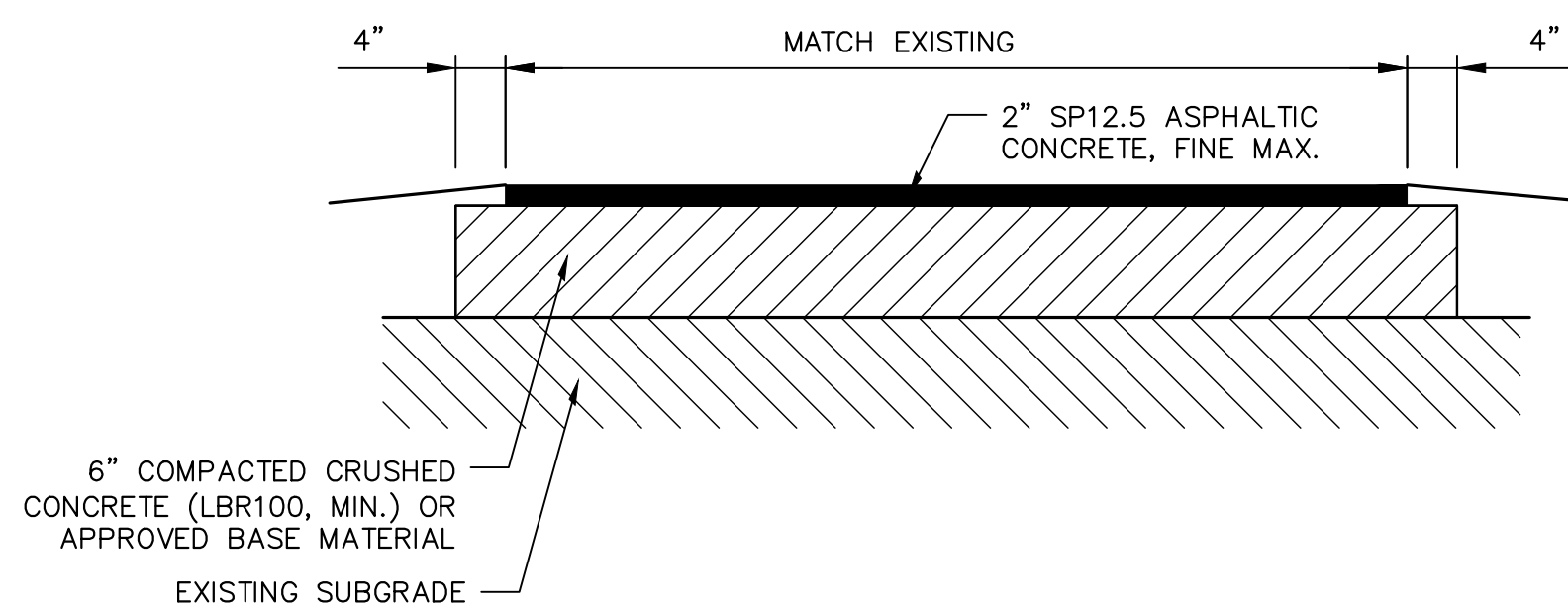
PLAN



SECTION

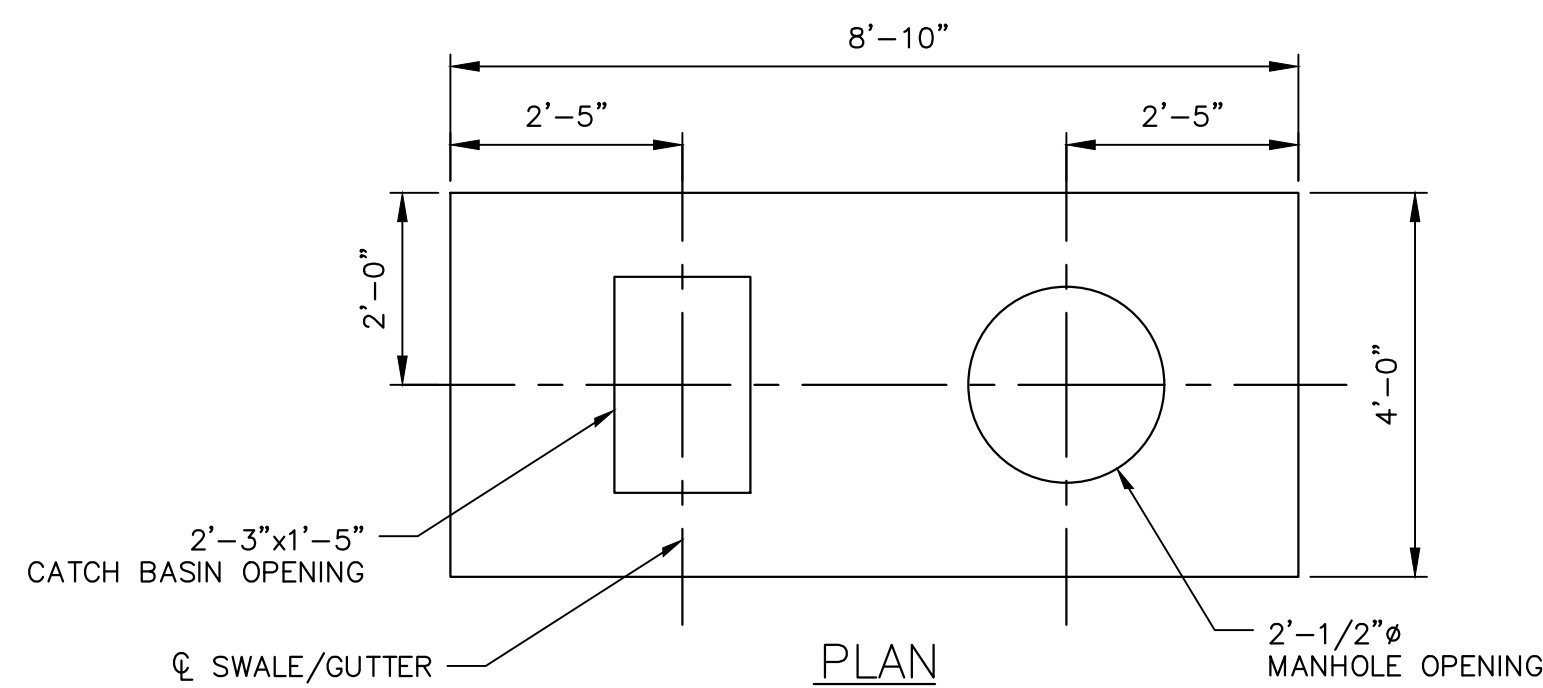
DUCK BILL VALVE BOX DETAIL

1/2" = 1'-0"

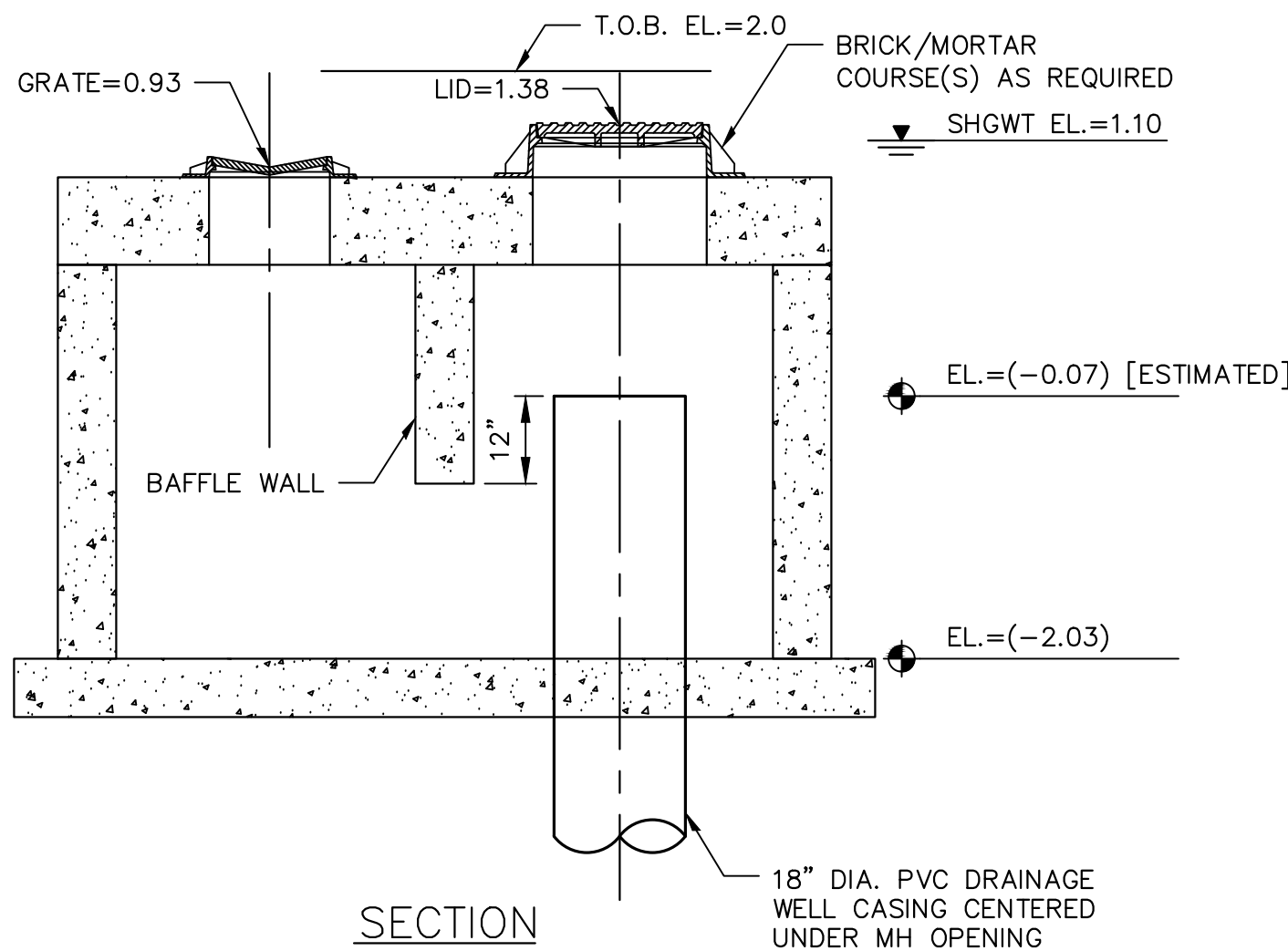


ASPHALT PATHWAY DETAIL

NTS



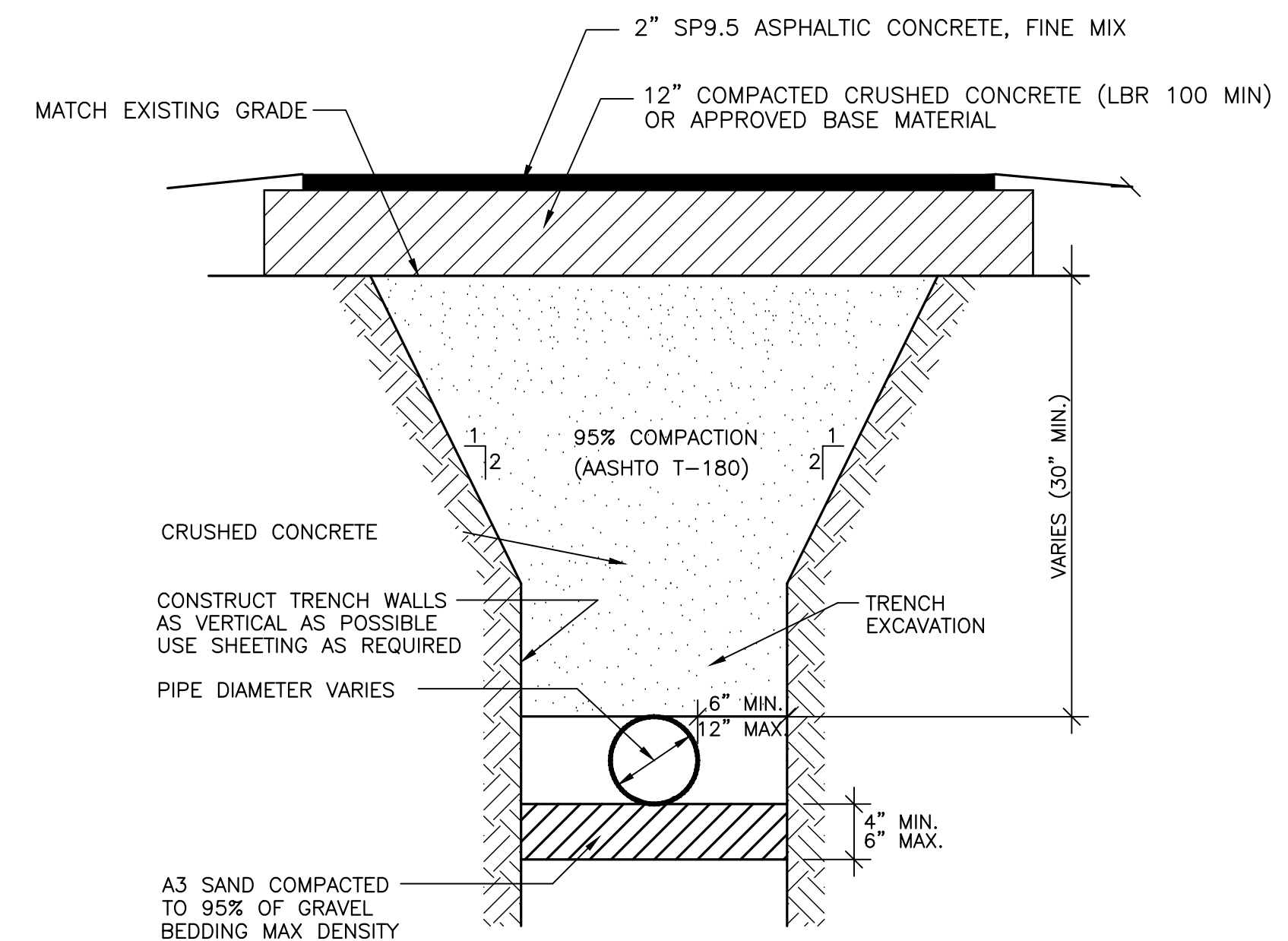
PLAN



SECTION

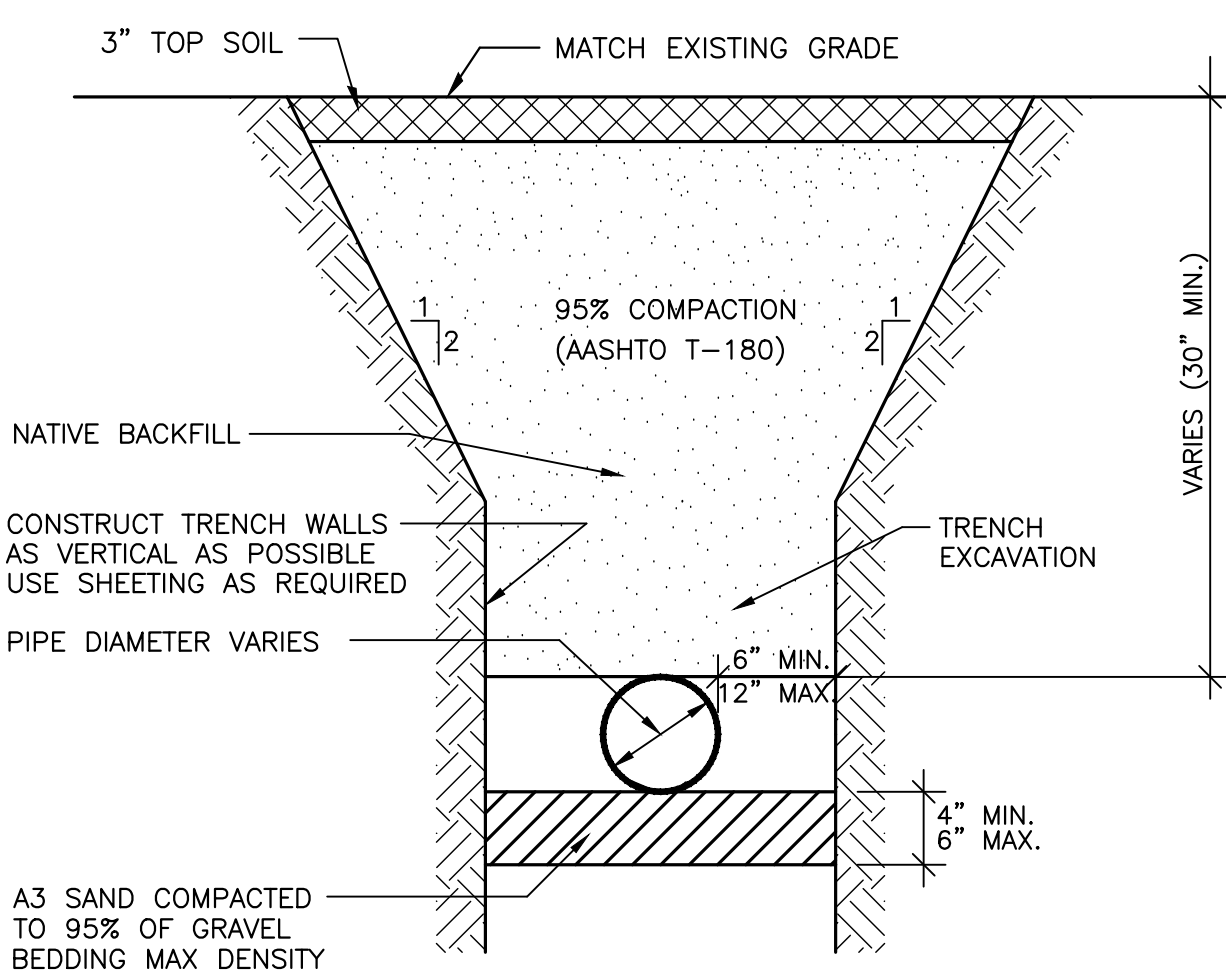
EXISTING POND CONTROL STRUCTURE DETAIL

1/2" = 1'-0"



TYPICAL TRENCH & PAVEMENT REPLACEMENT DETAIL

NTS



TRENCH DETAIL - UNIMPROVED AREA

NTS

DESIGN MPT SLL JRS
DRAWN PROJ. DATE
MGR. 05/09/25

Florida License
No. 3215

MITTALDER & ASSOCIATES, INC.
PROJECT FUNDING SPECIALISTS
NOW A PART OF *epi*



CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
Typical Details
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.

EROSION AND SEDIMENT CONTROL NOTES

1. 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.

2. 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.

3. ADDITIONAL PROTECTION – ON-SITE PROTECTION IN ADDITION TO THAT SHOWN ON THESE PLANS MUST BE PROVIDED THAT WILL NOT PERMIT SILT TO LEAVE THE PROJECT CONFINES DUE TO UNSEEN CONDITIONS OR ACCIDENTS.

4. CONTRACTOR SHALL INSURE THAT ALL DRAINAGE STRUCTURES, PIPES, ETC. ARE CLEANED OUT AND WORKING PROPERLY AT TIME OF ACCEPTANCE.

5. WIRE MESH SHALL BE LAID OVER EACH 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.

6. FDOT NO. 1 COARSE AGGREGATE SHALL BE PLACED OVER THE WIRE MESH AS INDICATED IN D-903. 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.

7. 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.

8. BALES SHALL BE EITHER WIRE-BOUND OR STRING-TIED WITH THE BINDINGS ORIENTED AROUND THE SIDES RATHER THAN OVER AND UNDER THE BALES.

9. BALES SHALL BE PLACED LENGTHWISE IN A SINGLE ROW SURROUNDING THE INLET, WITH THE ENDS OF ADJACENT BALES PRESSED TOGETHER.

10. THE FILTER BARRIER SHALL BE ENTRENCHED AND BACKFILLED. A TRENCH SHALL BE EXCAVATED TO A MINIMUM DEPTH OF 8 INCHES. AFTER THE BALES ARE STAKED, THE EXCAVATED SOIL SHALL BE BACKFILLED AND COMPACTED AGAINST THE FILTER BARRIER.

11. EACH BALE SHALL BE SECURELY ANCHORED AND HELD IN PLACE BY AT LEAST TWO STAKES OR REBARS DRIVEN THROUGH THE BALE.

12. LOOSE STRAW SHOULD BE WEDGED BETWEEN BALES TO PREVENT WATER FROM ENTERING BETWEEN BALES.

13. STRAW BALE BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL.

14. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS AND UNDERCUTTING BENEATH BALES.

15. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BALES SHALL BE ACCOMPLISHED PROMPTLY.

16. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE STRAW BALE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEED.

17. 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.

18. 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 STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

19. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

20. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEED.

21. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED.

22. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO 1/3 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.

23. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING THE BEST EROSION AND SEDIMENT CONTROL PRACTICE OUTLINED IN THE PLANNED INSTRUCTIONS AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT SPECIFICATIONS AND CRITERIA.

24. FOR ADDITIONAL INFORMATION ON SEDIMENT AND EROSION CONTROL REFER TO STATE OF FLORIDA EROSION & SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL, JULY 2013.

25. EROSION AND SEDIMENT CONTROL BARRIERS SHALL BE PLACED ADJACENT TO ALL WETLAND AREAS WHERE THERE IS POTENTIAL FOR DOWNSTREAM WATER QUALITY DEGRADATION.

26. ALL DISTURBED AREAS SHALL BE GRASSED, FERTILIZED, MULCHED AND MAINTAINED UNTIL A PERMANENT VEGETATIVE COVER IS ESTABLISHED.

27. SOD SHALL BE PLACED IN AREAS WHICH MAY REQUIRE IMMEDIATE EROSION PROTECTION TO ENSURE WATER QUALITY STANDARDS ARE MAINTAINED.

28. 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.

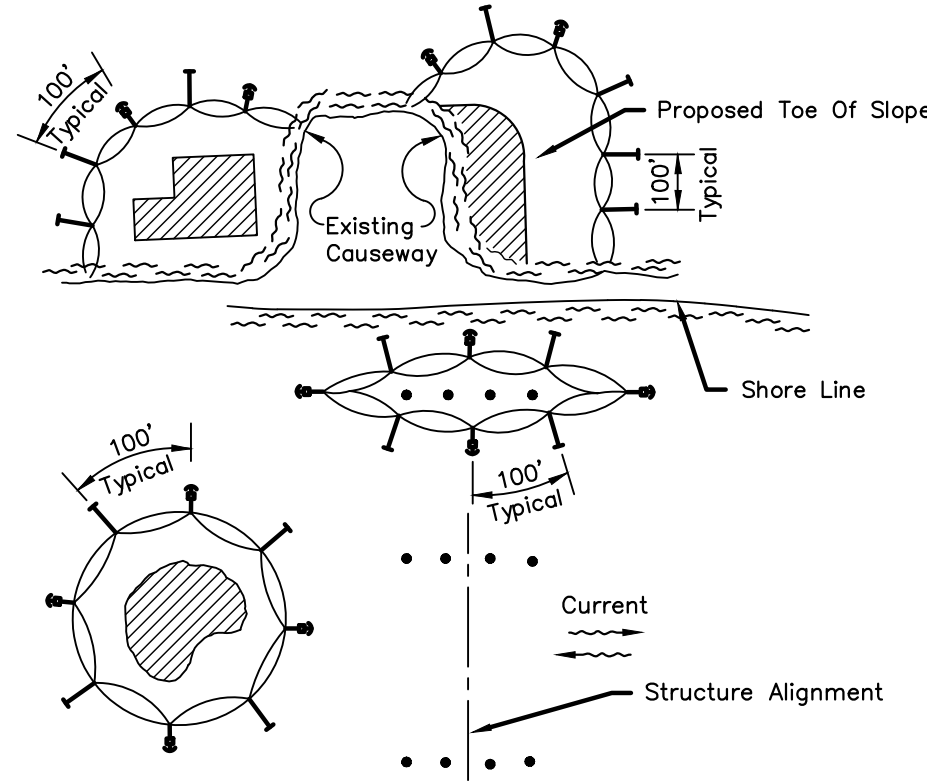
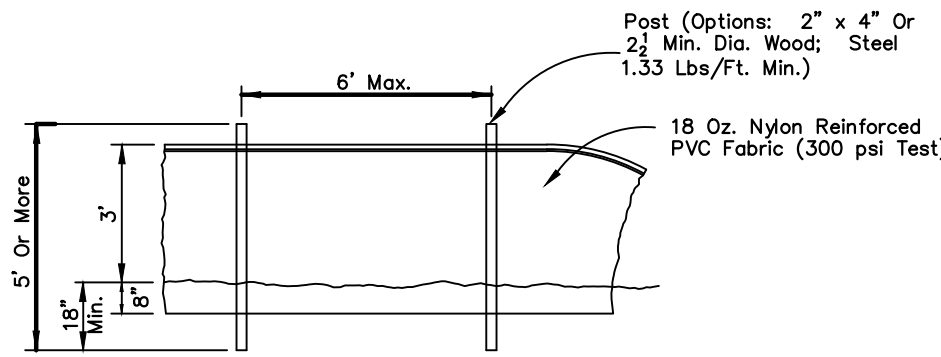
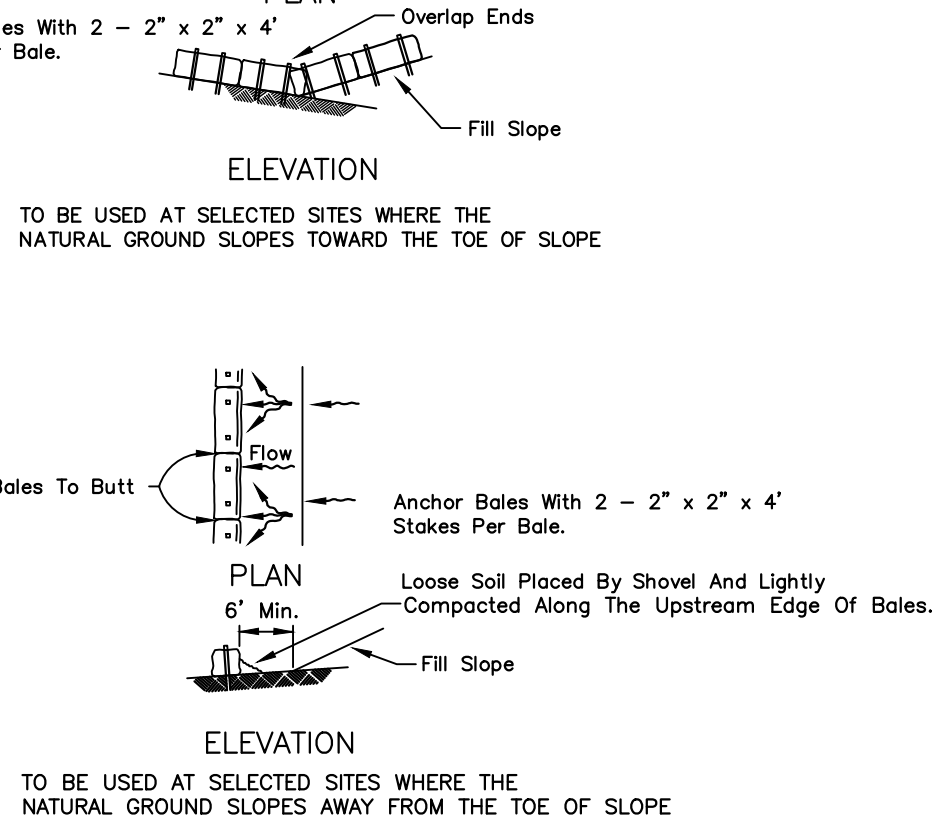
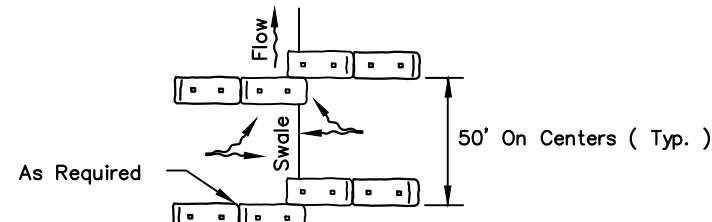
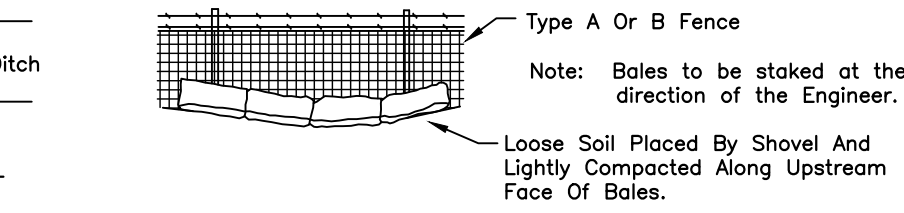
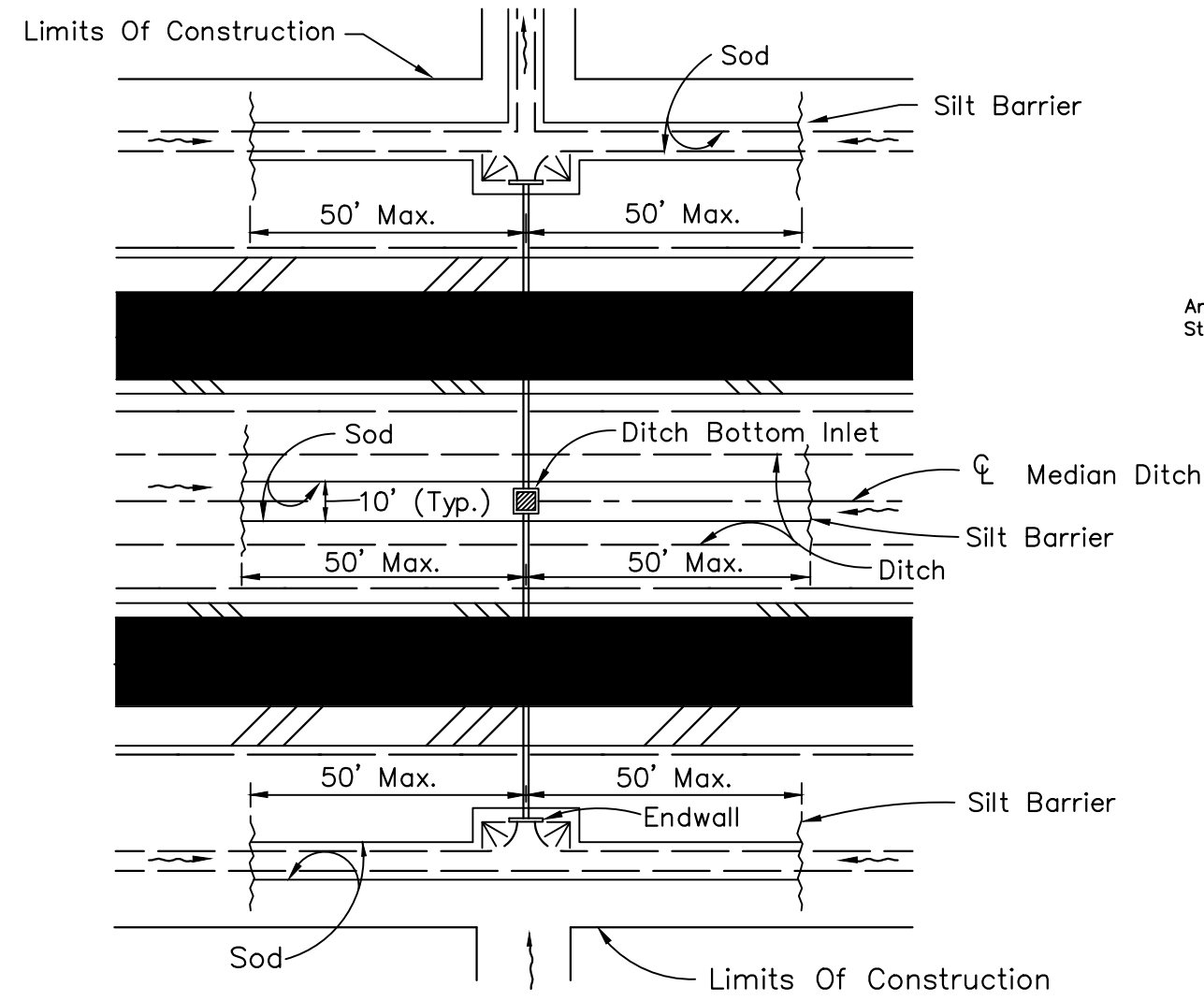
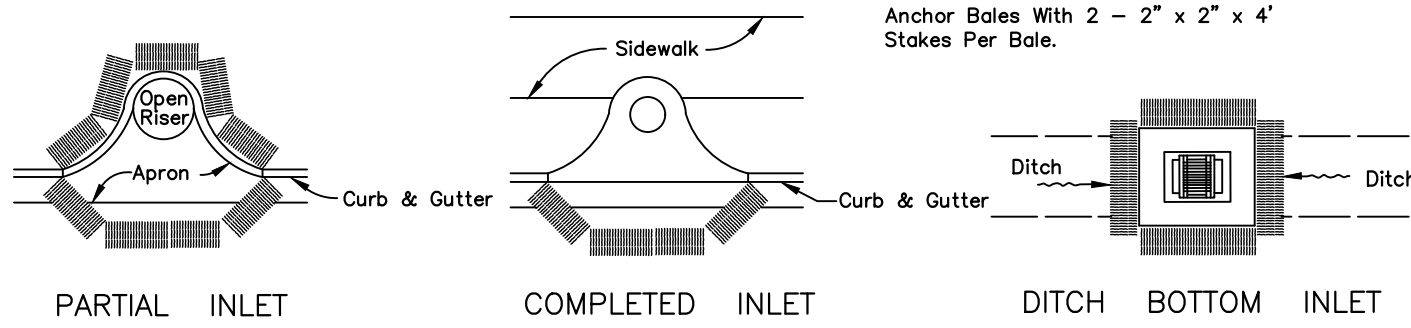
29. DEWATERING PUMPS SHALL NOT EXCEED THE CAPACITY OF THAT WHICH REQUIRES A CONSUMPTIVE USE PERMIT FROM THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.

30. ALL DISTURBED AREAS TO BE STABILIZED THROUGH COMPACTION, SILT SCREENS, HAY BALES, AND GRASSING. ALL FILL SLOPES 1:3 OR STEEPER TO RECEIVE STAKED SOLID SOD.

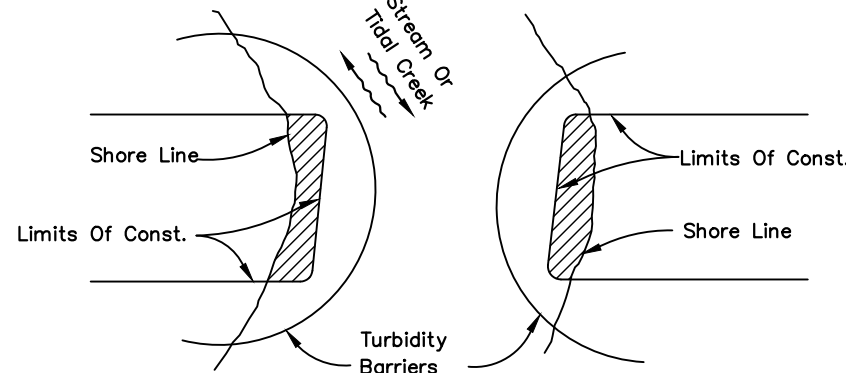
31. ALL DEWATERING, EROSION, AND SEDIMENT CONTROL TO REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION AND REMOVED ONLY WHEN AREAS HAVE BEEN STABILIZED.

32. THIS PLAN INDICATES THE MINIMUM EROSION AND SEDIMENT 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.

33. THE CONTRACTOR SHALL BE REQUIRED TO RESPOND TO ALL GOVERNING AGENCY INQUIRIES, RELATIVE TO COMPLIANCE OF THIS PROJECT FOR EROSION AND SEDIMENTATION CONTROL. THE COST OF THIS COMPLIANCE SHALL BE PART OF THE CONTRACT.



- LEGEND
- Pile Locations
 - ▨ Dredge Or Fill Area
 - ⬮ Mooring Buoy w/Anchor
 - ⬮ Anchor
 - Barrier Movement Due To Current Action

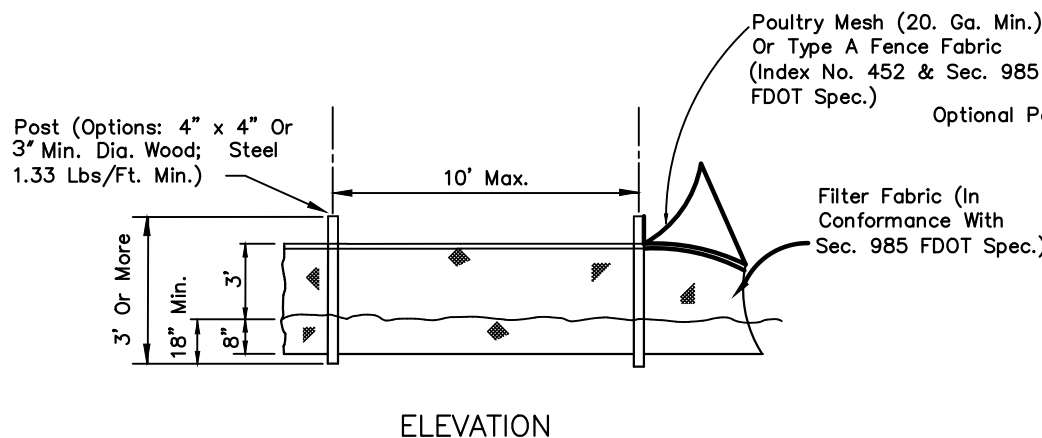
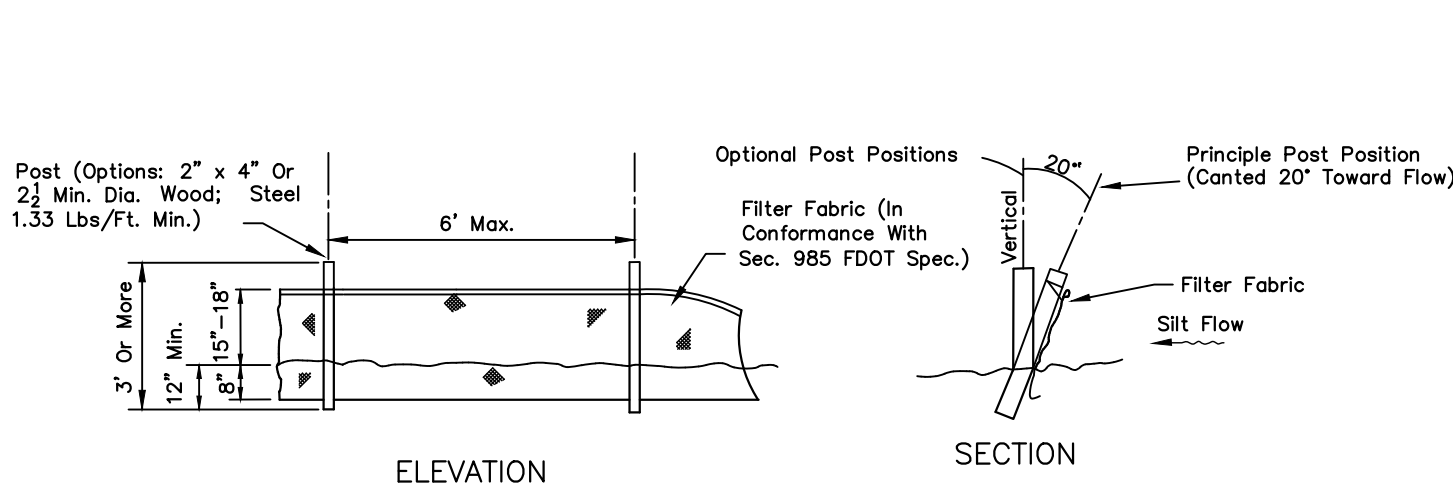


Note: Turbidity barriers for flowing streams and tidal creeks may be either floating, or staked types or any combinations of types that will suit site conditions and meet erosion control and water quality requirements. The barrier type(s) will be at the Contractors option unless otherwise specified in the plans, however, payment will be under the contract lump sum price established in the bid proposal for Erosion & Sediment Control. Posts in staked turbidity barriers to be installed in vertical position unless otherwise directed by the Engineer.

- NOTES:
1. Turbidity barriers are to be used in all permanent bodies of water regardless of water depth.
 2. Number and spacing of anchors dependent on current velocities.
 3. Deployment of barrier around pile locations may vary to accommodate construction operations.
 4. Navigation may require segmenting barrier during construction operations.
 5. For additional information see Section 104 of the FDOT Standard Specifications.

HAY BALE LOCATION

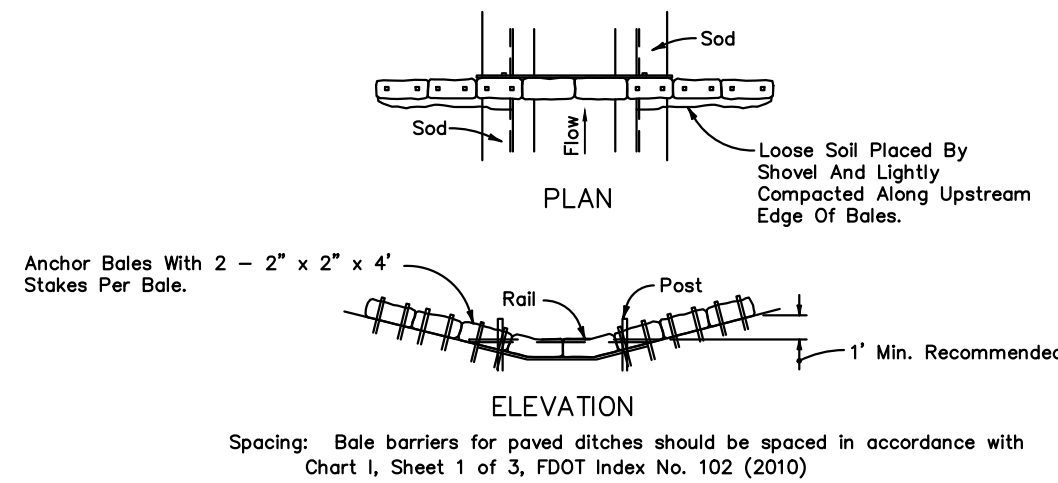
(D-901)
N.T.S.



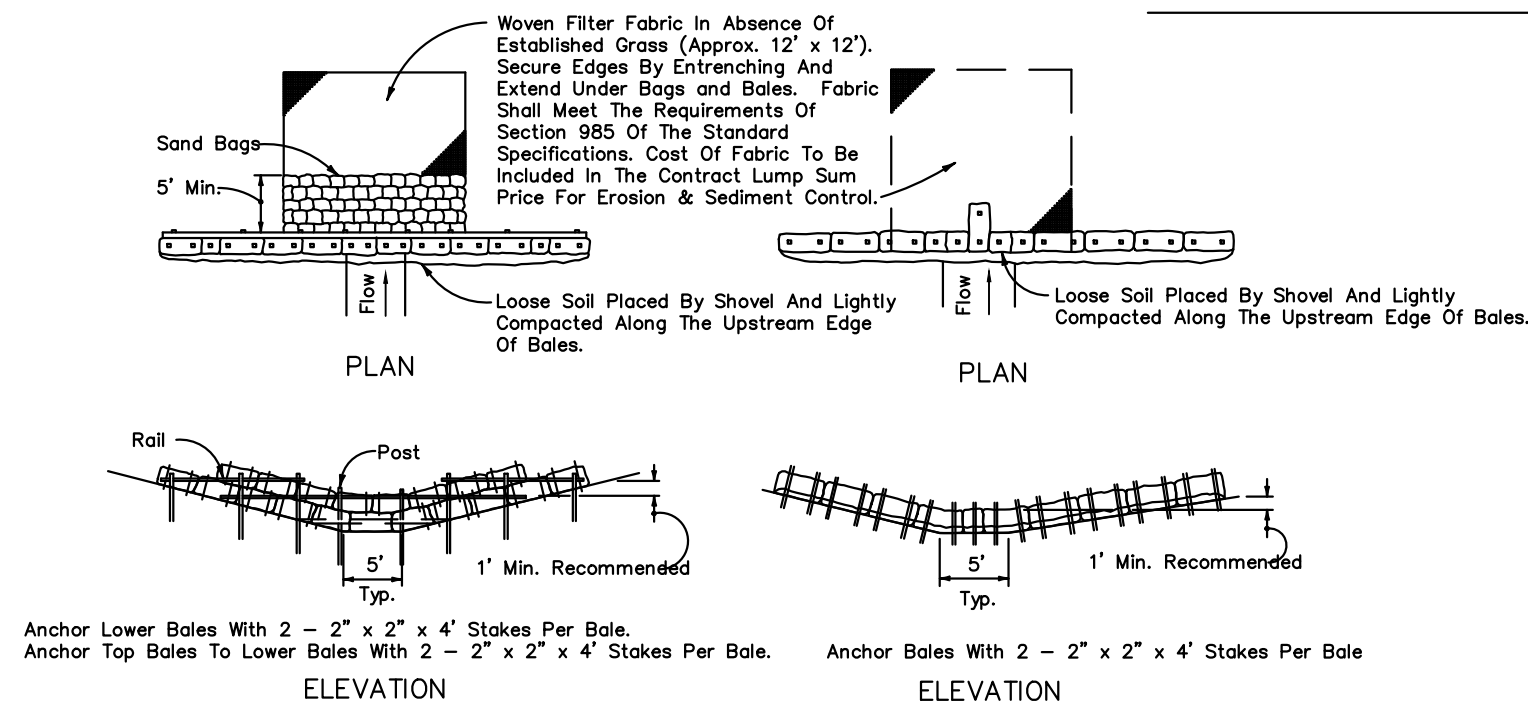
Note: Silt Fence to be paid for under the contract lump sum price for Erosion and Sediment Control.

TURBIDITY BARRIERS

(D-907)
N.T.S.



Spacing: Bale barriers for paved ditches should be spaced in accordance with Chart I, Sheet 1 of 3, FDOT Index No. 102 (2010)



TYPE II
BARRIER FOR UNPAVED DITCHES

TYPE I

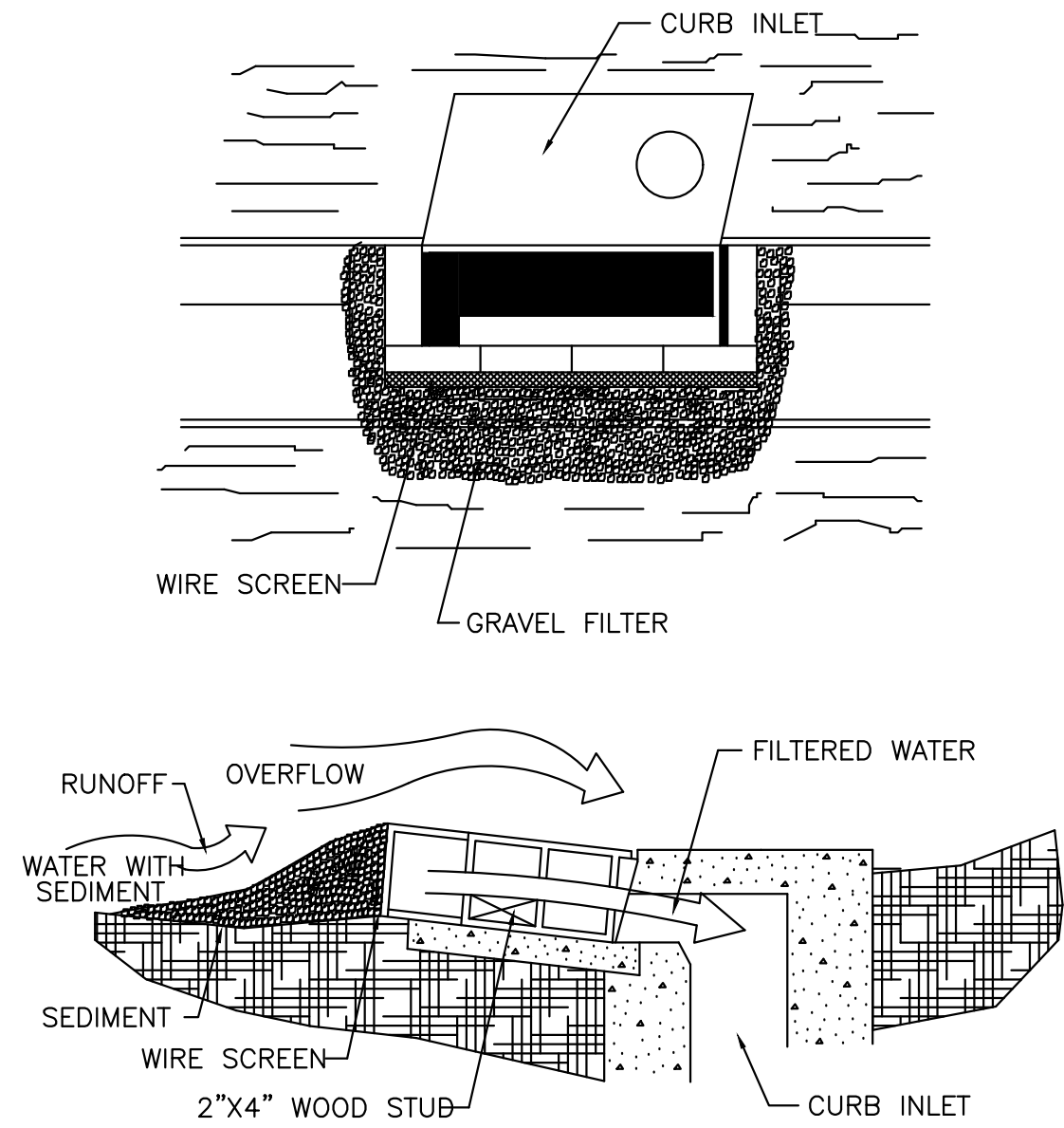
HAY BALE BARRIERS TYPE I & II

(D-912)
N.T.S.

SEE NOTE 8-16

NOTE:
WHERE FDOT SPECS AND INDEX ARE REFERENCED, PLEASE REFER TO FDOT ROADWAY & TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROAD & BRIDGE CONSTRUCTION.

J:\OrangePark\CAD Files\Key Colony Beach\Key Colony Drive Drainage Improvements\Design\SH18-20.dwg, 5/6/2025 8:41:16 AM

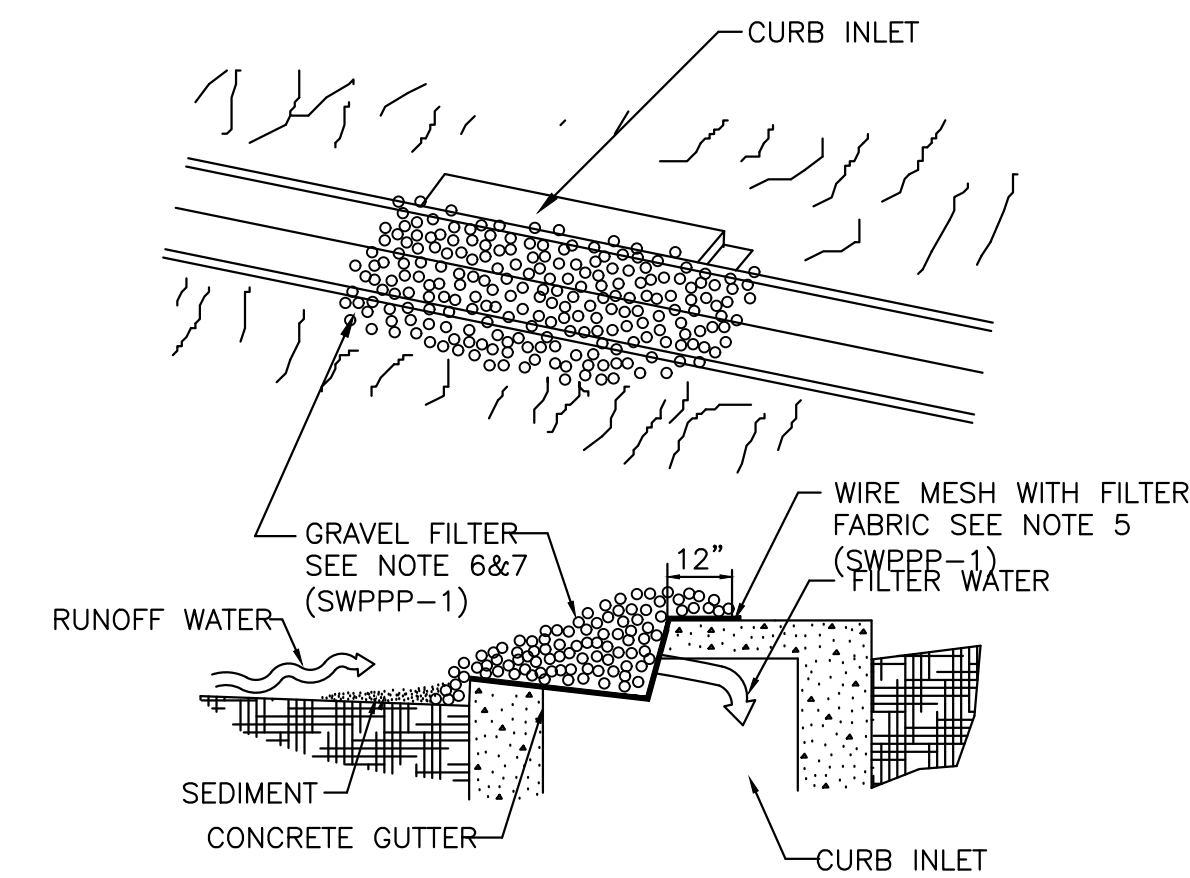


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING IN FRONT OF THE STRUCTURE.

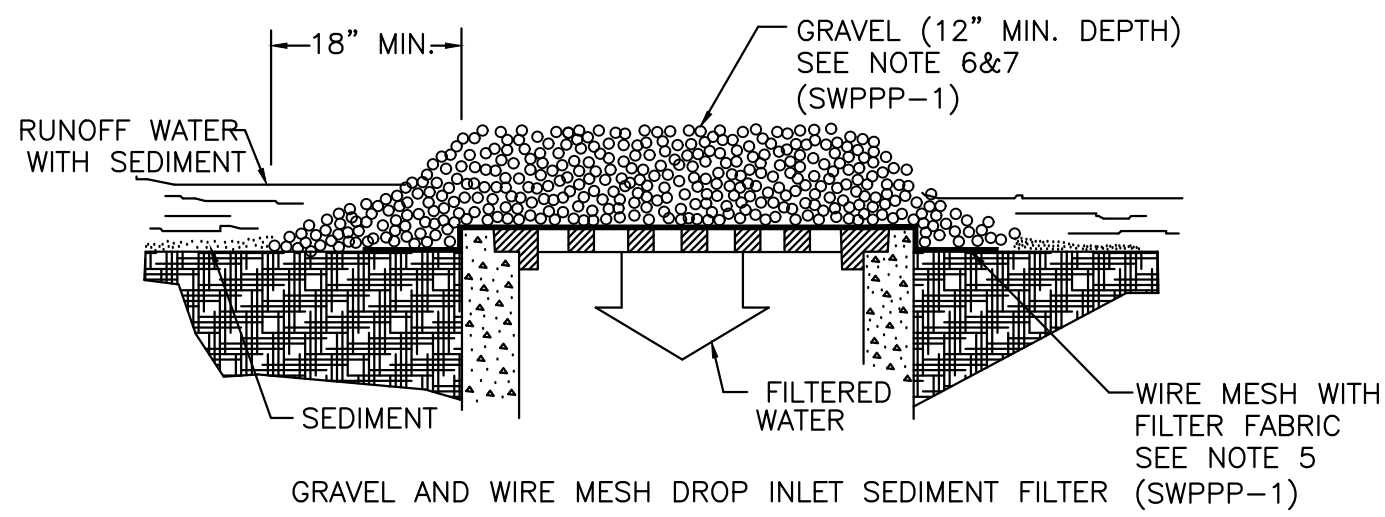
BLOCK & GRAVEL CURB INLET SEDIMENT FILTER

(D-902)
N.T.S.



GRAVEL CURB INLET SEDIMENT FILTER
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

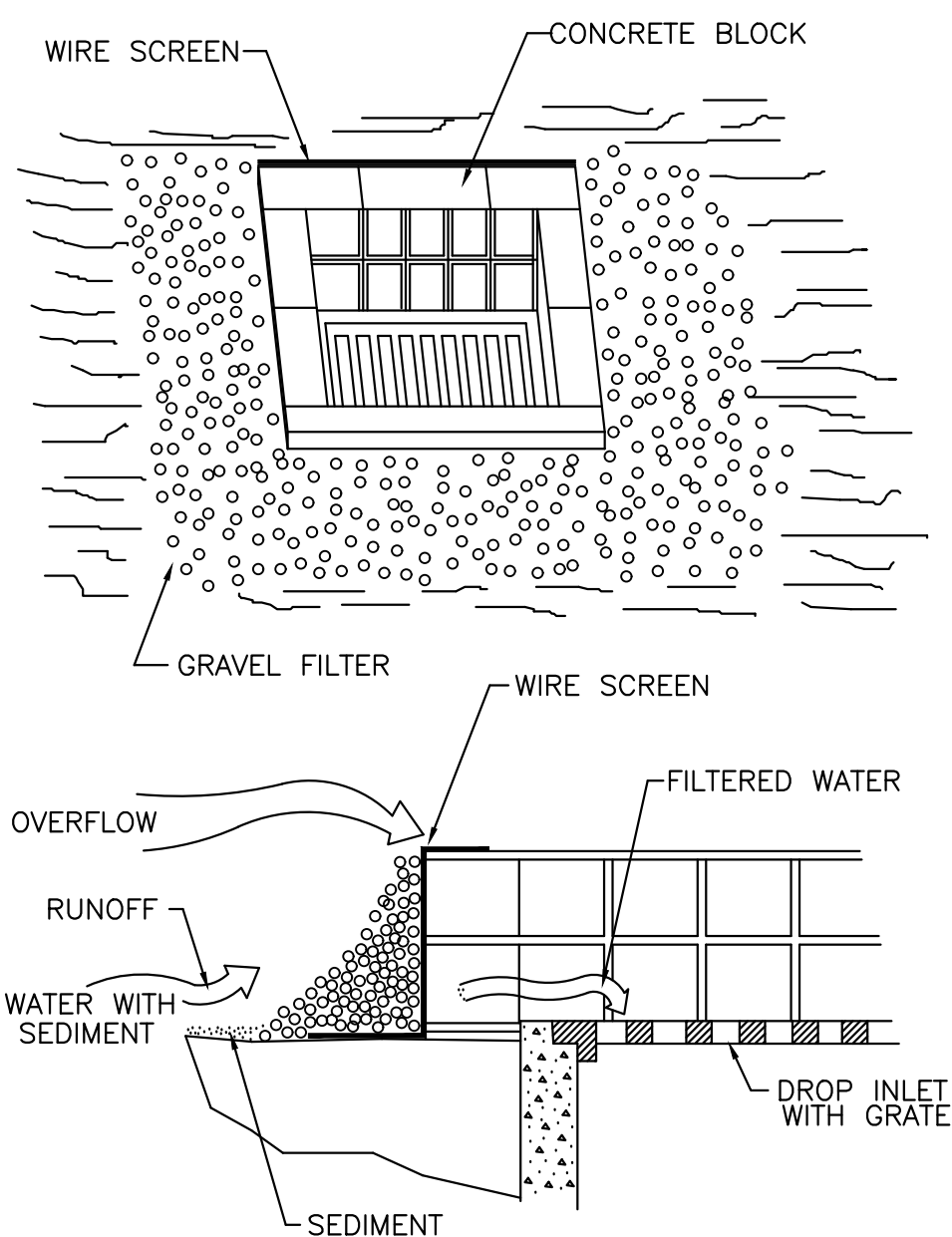


GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

GRAVEL INLET SEDIMENT TRAP

(D-903)
N.T.S.

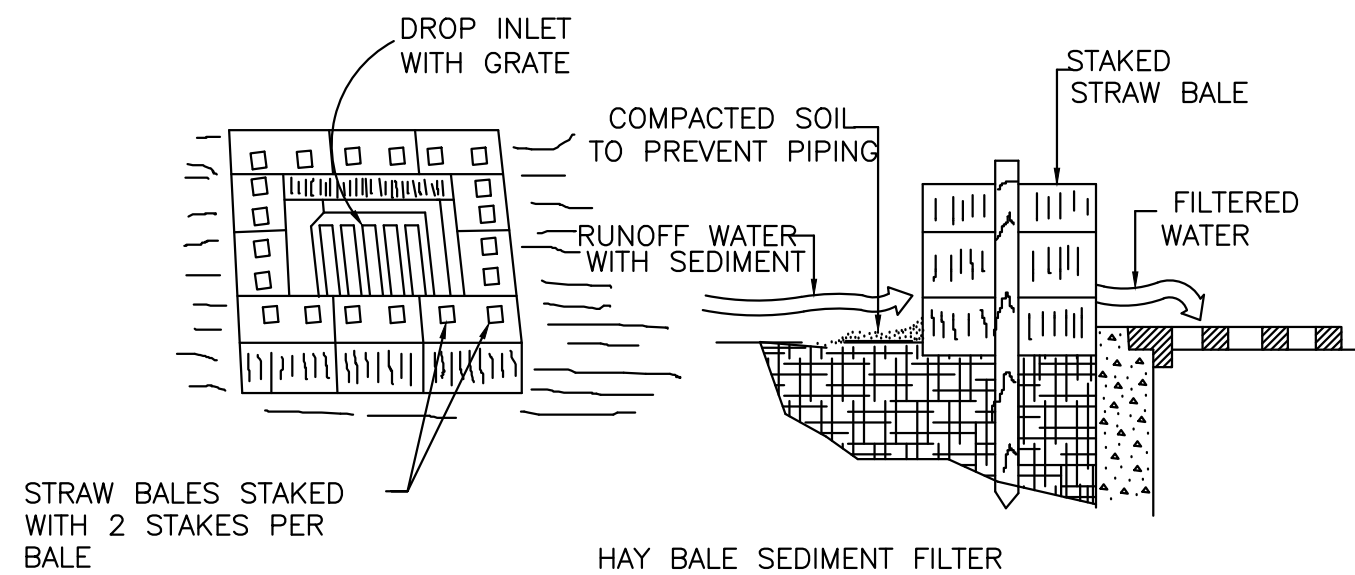


SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY FLOWS ARE EXPECTED AND WHERE AN OVERFLOW CAPABILITY IS NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

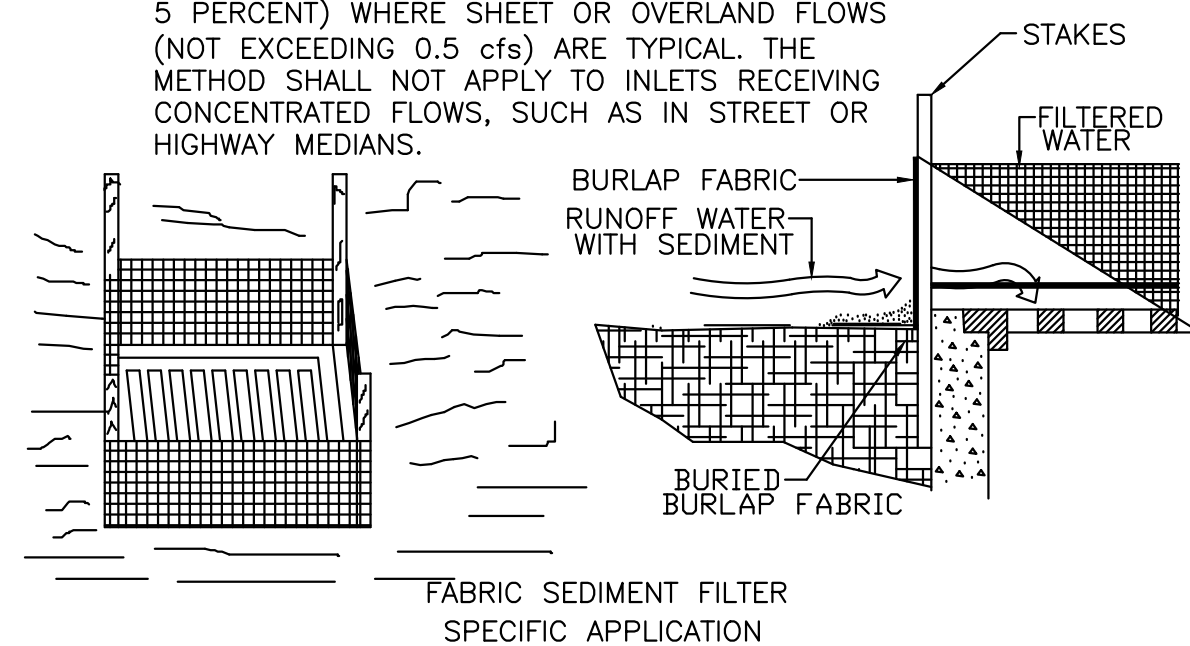
BLOCK & GRAVEL DROP INLET SEDIMENT FILTER

(D-904)
N.T.S.



SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.



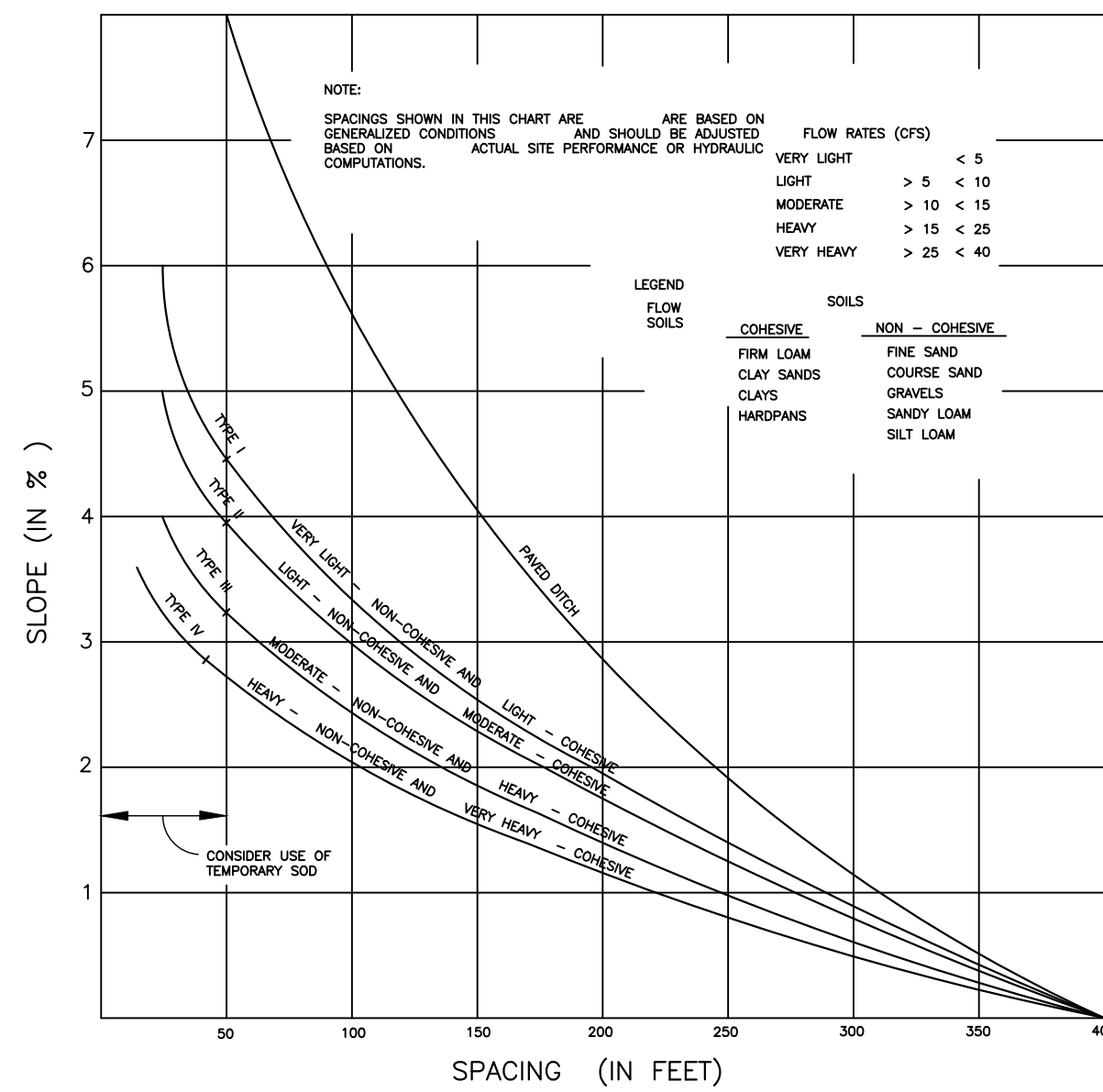
FABRIC SEDIMENT FILTER
SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE THE INLET DRAINS A RELATIVELY FLAT AREA (SLOPES NO GREATER THAN 5 PERCENT) WHERE SHEET OR OVERLAND FLOWS (NOT EXCEEDING 0.5 cfs) ARE TYPICAL. THE METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY MEDIANS.

DROP INLET SEDIMENT TRAP

(D-905)
N.T.S.

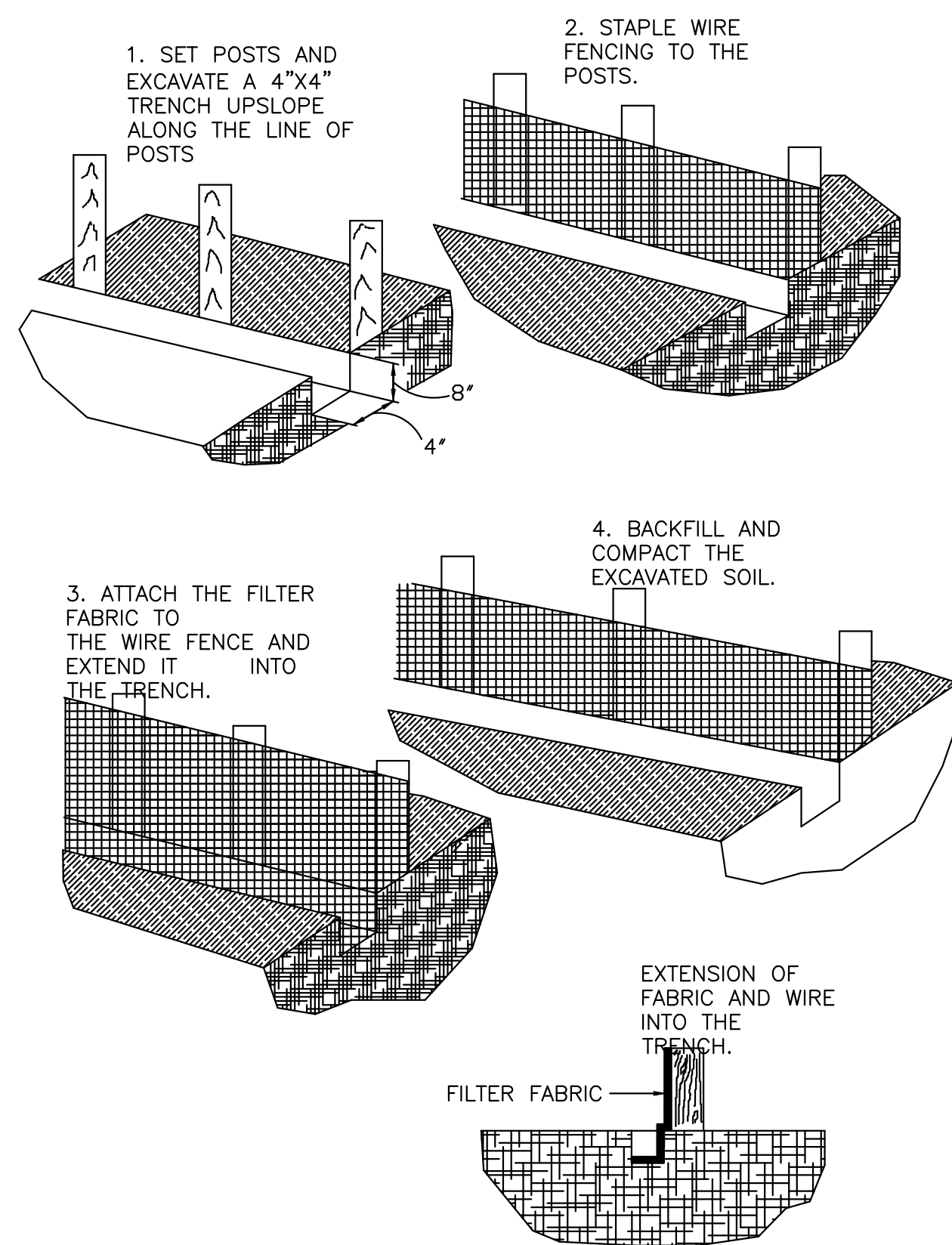
SEE NOTE 21-22
(SWPPP-1)



RECOMMENDED SPACING FOR TYPE I AND TYPE II HAY BALE BARRIERS, AND TYPE III AND TYPE IV SILT FENCES AND PAVED DITCH HAY BALE BARRIERS

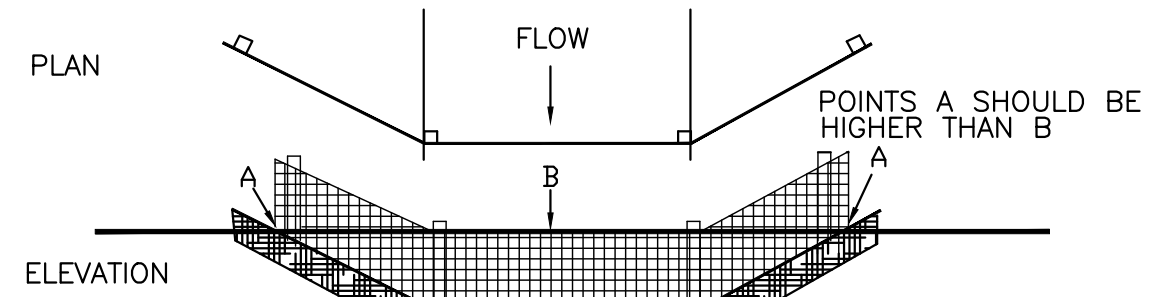
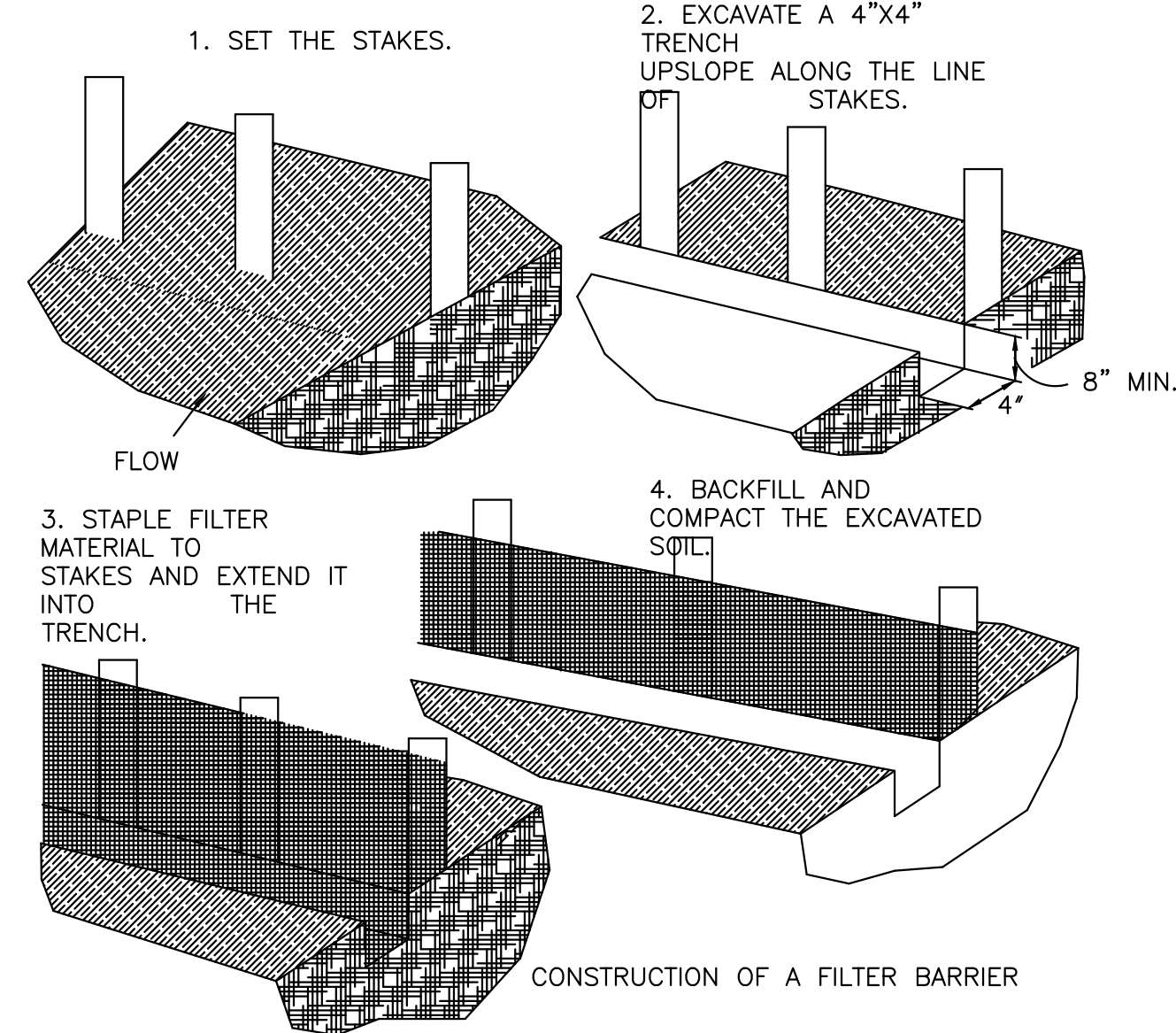
SPACING RECOMMENDATION FOR SILT FENCES & HAY BALES

(D-906)
N.T.S.



CONSTRUCTION DETAILS FOR SILT FENCES

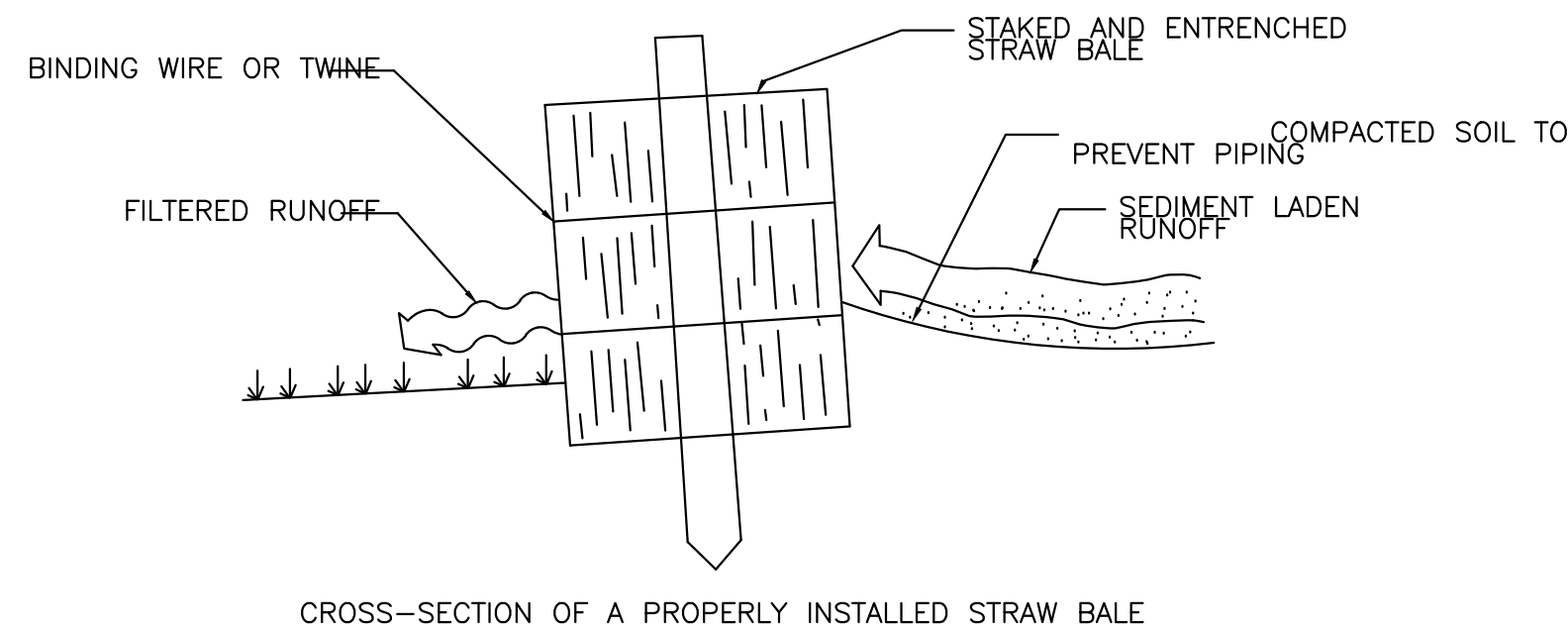
(D-909)
N.T.S.



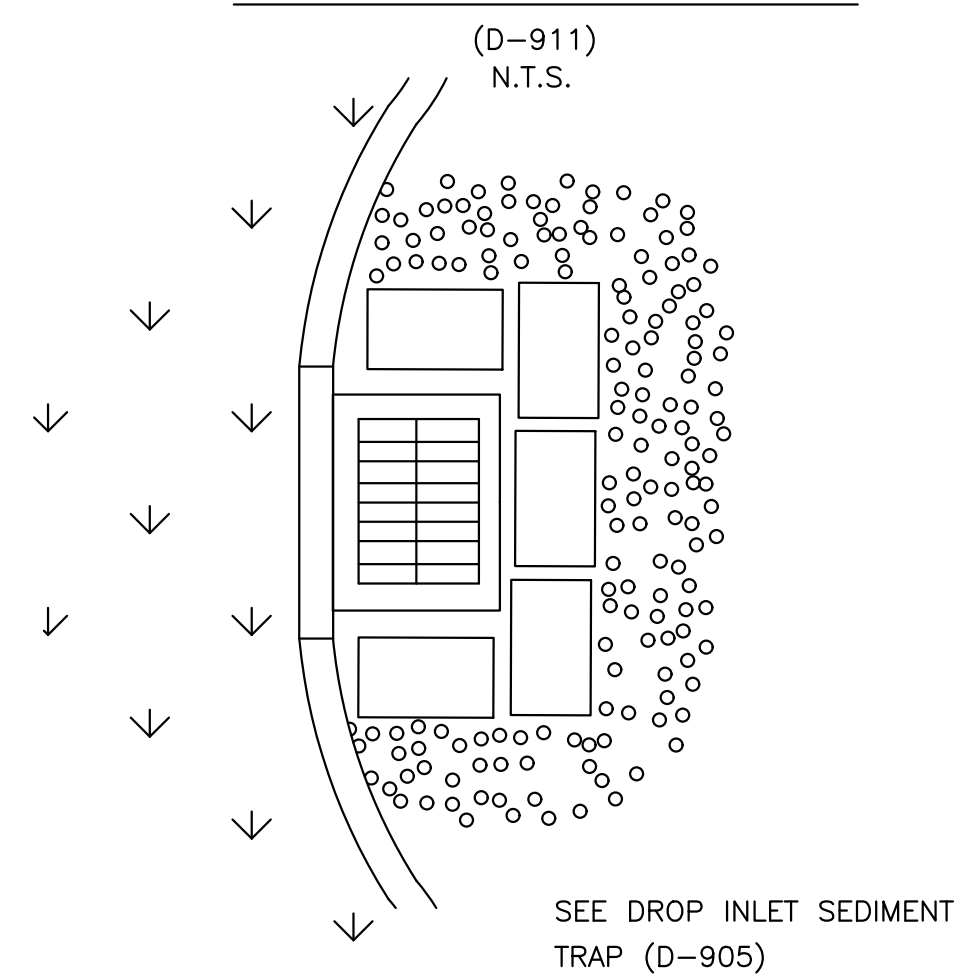
PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

FILTER BARRIER CONSTRUCTION DETAIL

(D-910)
N.T.S.



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE



ERECT SEDIMENT BARRIERS AT CATCH BASINS

(TYPICAL)
N.T.S.

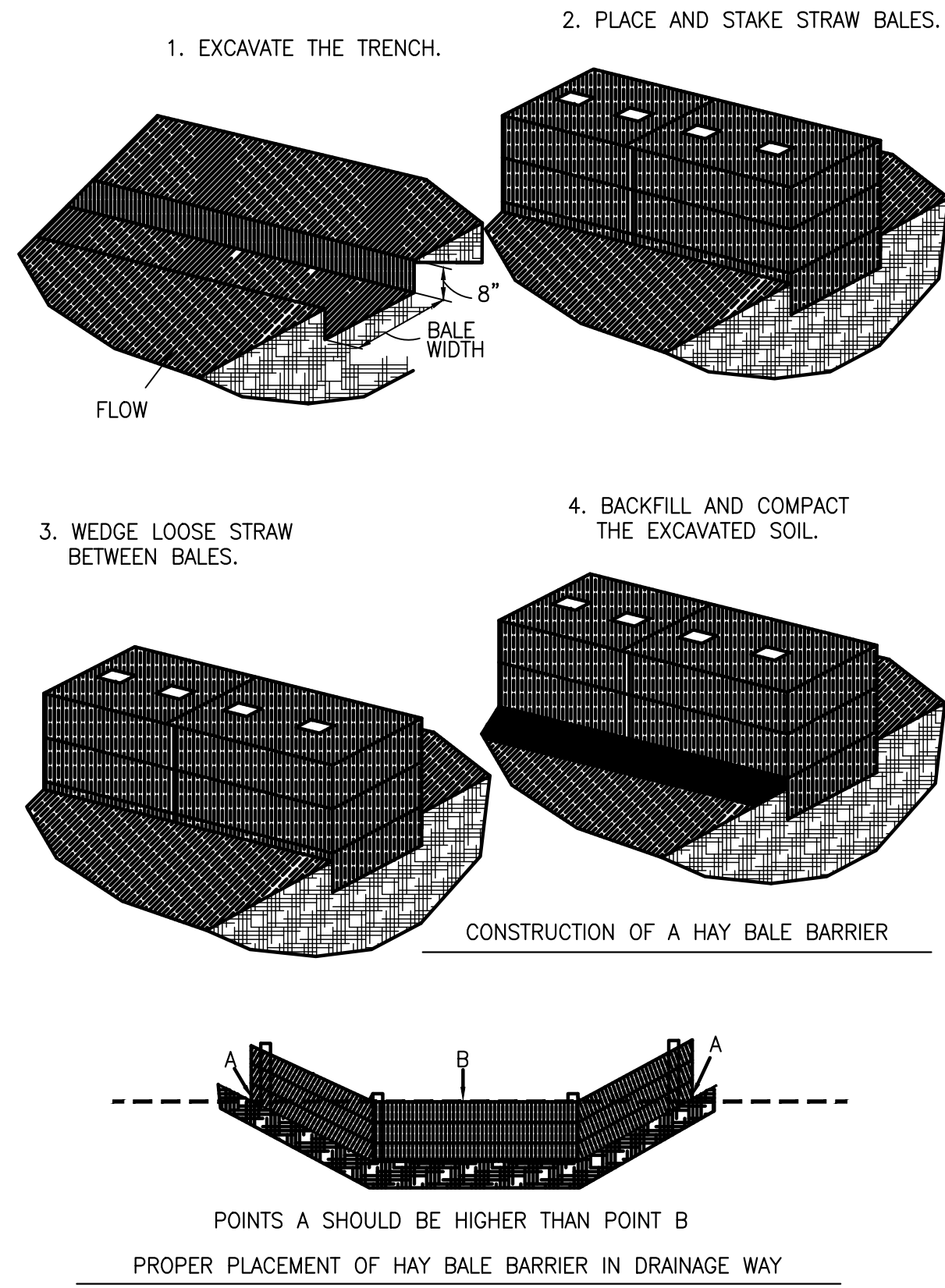
DESIGN: MPT
DRAWN: SLL
PROJECT: JRS
DATE: 05/09/25
1 INCH

Florida License
No. 3215



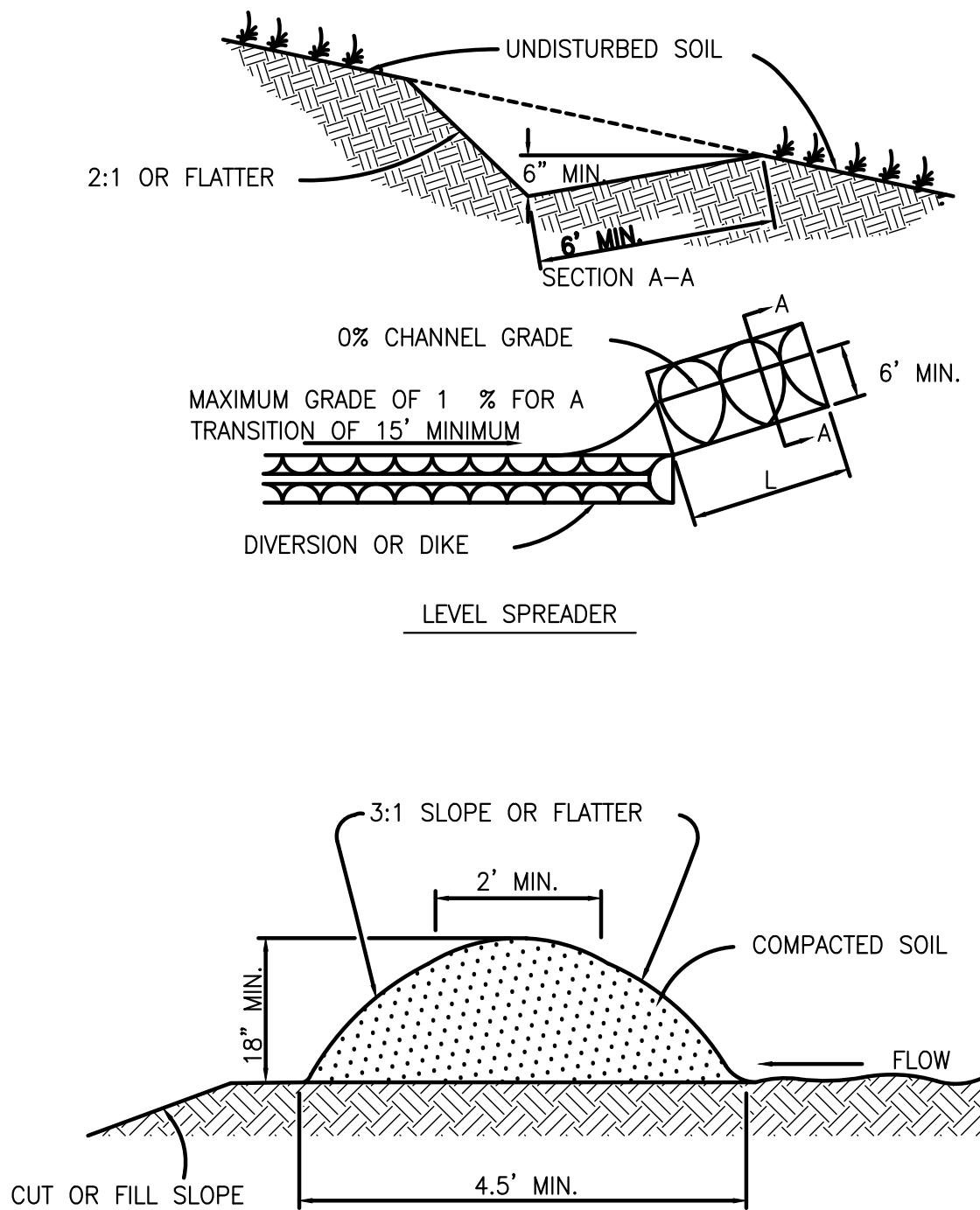
CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
SWPPP Details
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.



HAY BALE BARRIER CONSTRUCTION DETAILS

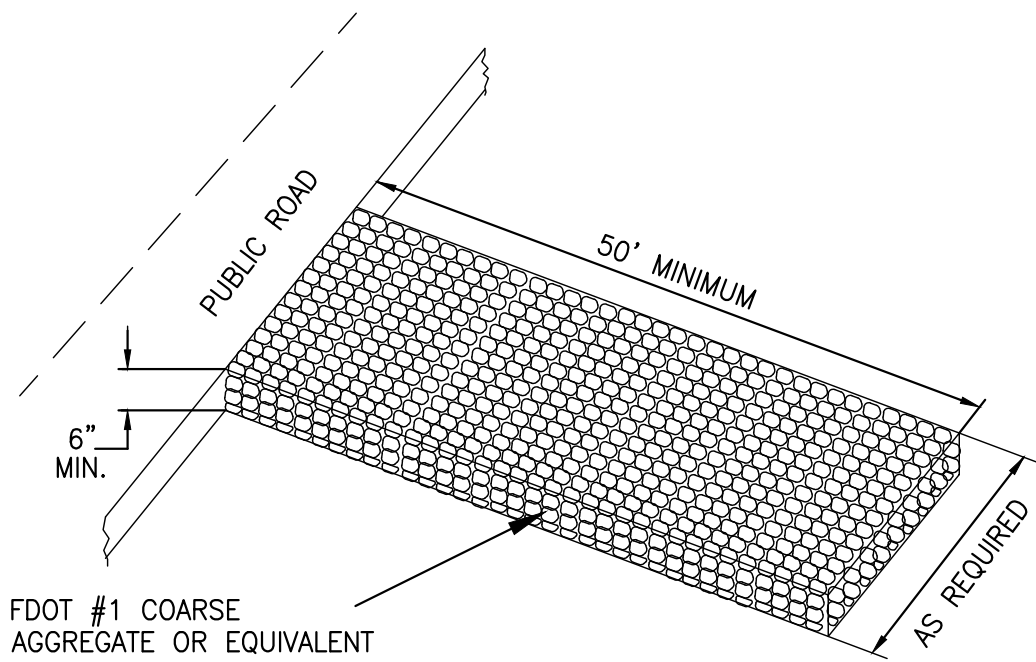
(D-913)
N.T.S.



TEMPORARY DIVERSION DIKE

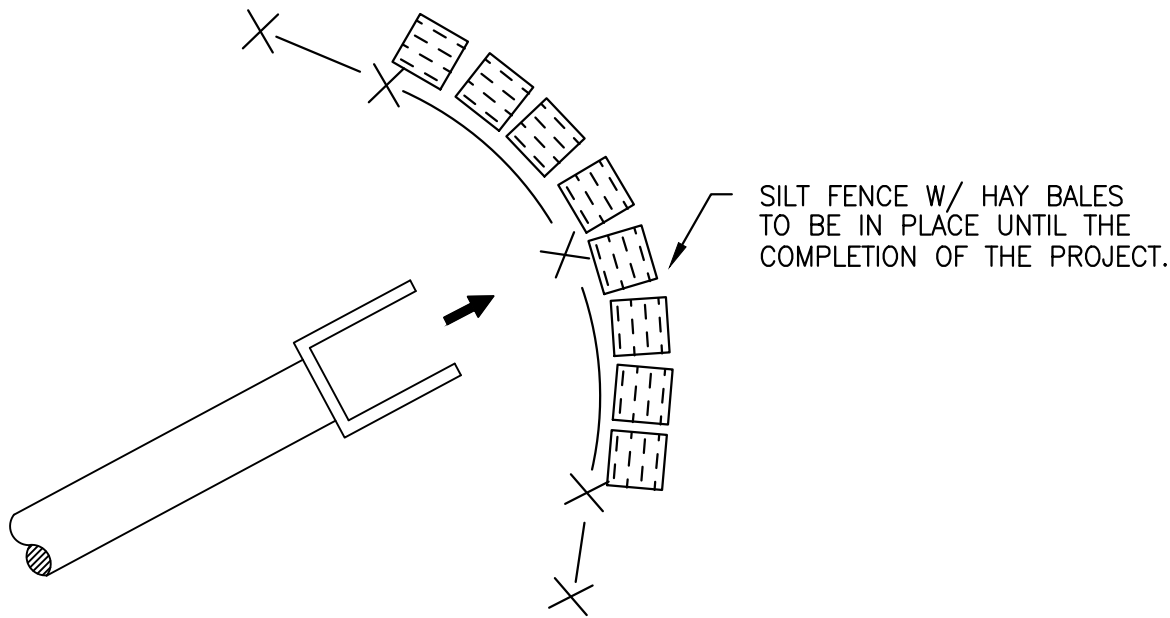
DIVERSION DIKE

(D-914)
N.T.S.



STABILIZED CONSTRUCTION ENTRANCE

N.T.S.



OUTLET PROTECTION

N.T.S.

DESIGN	MPT	SUL	JRS
DRWN			
PROJ			
MGR			
DATE	05/09/25		

REVISION DESCRIPTION

BY

DATE

NO

1 INCH



MITTAUER & ASSOCIATES, INC.
CONSULTING ENGINEERS
PROJECT FUNDING SPECIALISTS
NOW A PART OF *epi*

Florida License
No. 3215

THE SAME GREAT TEAM. NOW WITH EVEN MORE RESOURCES.

CITY OF KEY COLONY BEACH
7th and Shelter Bay Drive Drainage Improvements, Phase 1
SWPPP Details
Monroe County, Florida

JOB NO.
0604-20-1
SHEET NO.