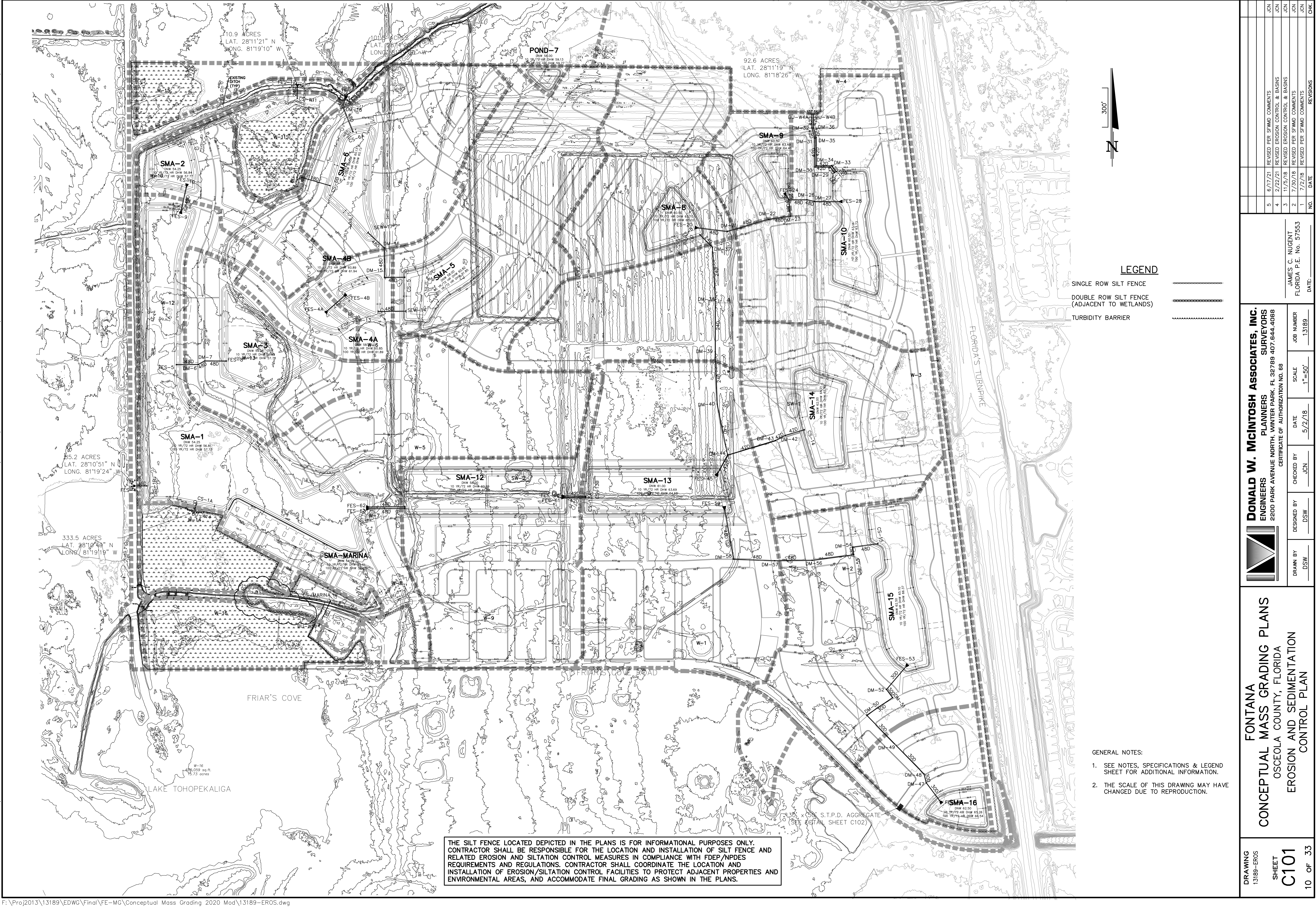


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CONSTRUCTION POLLUTION PREVENTION

STOCKPILING MATERIAL: NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.

EXPOSED AREA LIMITATION: THE SURFACE AREA OF OPEN, RAW, ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED TEN (10) ACRES. THIS REQUIREMENT MAY BE WAIVED FOR LARGE PROJECTS WITH A DUST CONTROL PLAN WHICH DEMONSTRATE THAT OPENING OF ADDITIONAL AREAS WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS. THIS WAIVER WILL BE BY WRITTEN AUTHORIZATION FROM THE OSCEOLA COUNTY MANAGER. CONTRACTOR SHALL PROVIDE A DETAILED DUST CONTROL PLAN TO OSCEOLA COUNTY FOR APPROVAL PRIOR TO EXPOSING MORE THAN 10 ACRES. EXCAVATION AND MASS GRADING ACTIVITY SHALL BE CONDUCTED SO AS TO CONTROL THE GENERATION AND OFF-SITE MIGRATION OF DUSTS AND PARTICLES. ALL AREAS IN WHICH SUCH DUSTS OR PARTICLES MAY BE GENERATED SHALL BE KEPT WET, TREATED WITH CHEMICAL DUST DETERGENTS, OR CONTROLLED IN ANOTHER MANNER TO REDUCE THE POTENTIAL FOR THEIR OFF-SITE MIGRATION. ATMOSPHERIC DISCHARGES FROM PROCESSING AND DRYING EQUIPMENT SHALL COMPLY WITH ALL APPLICABLE STATE, FEDERAL AND LOCAL LAWS. TO MINIMIZE DUST AND TO PREVENT THE DEPOSIT OF SOIL EXCAVATION MATERIAL ON PAVED ROADS, TRUCKS SHALL BE COVERED WITH THEIR TAILGATES LATCHED. DIRT ROAD SEGMENTS OF THE DESIGNATED HAUL ROUTE SHALL REQUIRE REGULAR WATERING, AS NECESSARY, TO MINIMIZE DUST GENERATED BY HAULING ACTIVITIES.

INLET PROTECTION: INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT-LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE TO THE INLET.

TEMPORARY SEEDING AND MULCHING: AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPETE WITH PERMANENT GRASSING. SLOPES STEEPER THAN 4:1 SHALL RECEIVE MULCHING OF APPROXIMATELY TWO (2) INCHES LOOSE MEASURE OF MULCH MATERIAL, CUT INTO THE SOIL OF THE SEEDD AREA TO A DEPTH OF FOUR INCHES.

TEMPORARY GRASSING: THE SEED OR SEEDED AND MULCHED AREA SHALL BE ROLLED AND WATERED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.

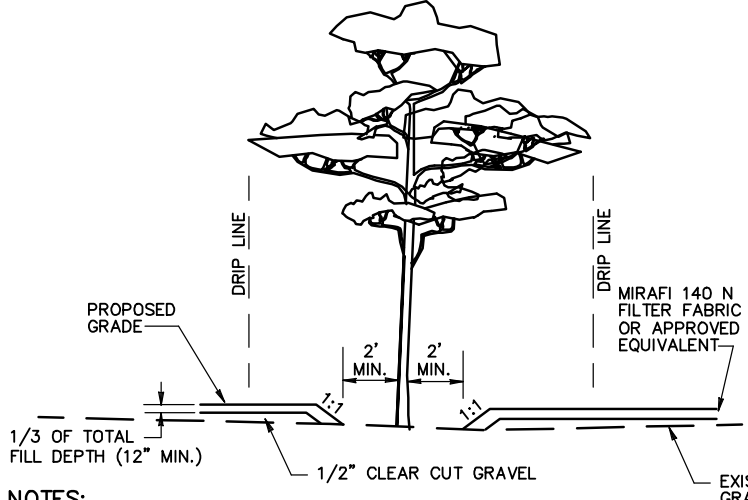
TEMPORARY REGRASSING: IF, AFTER FOURTEEN DAYS THE TEMPORARY GRASS AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATIVE COVER.

MAINTENANCE: ALL FEATURES OF THE PROJECT DESIGNED AND CONSTRUCTED TO PREVENT EROSION AND SEDIMENT SHALL BE MAINTAINED DURING THE PROJECT CONSTRUCTION LIFE, SO AS TO FUNCTION AS THEY WERE ORIGINALLY DESIGNED AND CONSTRUCTED.

EROSION AND SEDIMENT CONTROL NOTES:

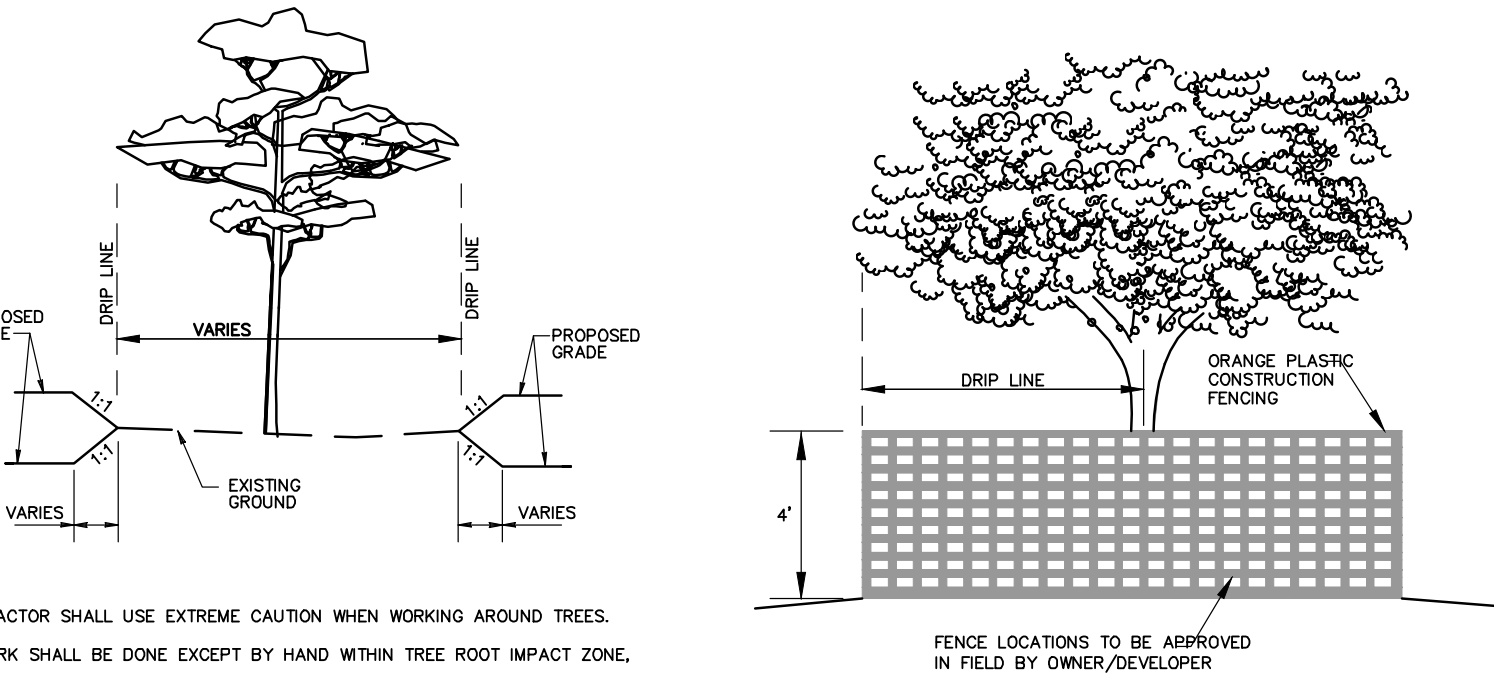
- BECAUSE OF THE PROJECT'S PROXIMITY TO ADJACENT LAKES AND WETLANDS, CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE EROSION, TO RETAIN SEDIMENT WHICH UNAVOIDABLY WILL RESULT FROM ONSITE CONSTRUCTION ACTIVITIES, TO PREVENT SEDIMENTATION AND OTHERWISE PROTECT ONSITE WETLANDS WHICH ARE TO BE RETAINED. THE BASIC PRINCIPLES DESCRIBED HEREIN ARE INTENDED TO DEFINE THE DEVELOPER'S INTENT AND REQUIRE THE CONTRACTOR TO SATISFY THE SPECIFIC REQUIREMENTS OF GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK.
- THE SCHEDULING, SEQUENCING AND CONTROL MEASURES, WHICH ARE OUTLINED HEREIN, ARE SUBJECT TO FINAL DEFINITION BY THE CONTRACTOR WHO WILL BE RESPONSIBLE FOR IMPLEMENTATION AND COMPLIANCE.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE REQUIRED TO SUBMIT A CONSTRUCTION SCHEDULE DEPICTING EACH PHASE OF THE WORK. THE CONTRACTOR SHALL ALSO BE REQUIRED TO SUBMIT AN EROSION AND SEDIMENT CONTROL PLAN TO THE OWNER, THE ENGINEER AND THE CITY OF ORLANDO ENCOMPASSING THE CONTRACTOR'S EXACT PLAN OF IMPLEMENTING THE PRINCIPLES AND THE REQUIREMENTS DESCRIBED HEREIN. NO CONSTRUCTION CAN BEGIN UNTIL SAID PLAN HAS BEEN APPROVED BY OSCEOLA COUNTY.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE AGAINST POLLUTING, SILTATION OR DISTURBANCE TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE ADJACENT WATER BODIES IN COMPLIANCE WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES.
- EROSION CONTROL METHODS SHALL INCLUDE TEMPORARY CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, SILT SCREENS, TURBIDITY BARRIERS OR THEIR BEST MANAGEMENT PRACTICE AVAILABLE TO THE INDUSTRY.
- EROSION AND SEDIMENT CONTROL INSTALLATIONS SHALL BE MAINTAINED BY CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD AND UNTIL NEW VEGETATIVE GROWTH HAS BEEN ESTABLISHED.
- THROUGHOUT THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL DAILY INSPECT PROTECTIVE INSTALLATIONS FOR FAILURES OR SIGNS OF FAILURE OR MALFUNCTION AND EFFECT REPAIRS OR REPLACEMENT IMMEDIATELY UPON DISCOVERY.
- THE RECOMMENDED GENERAL SEQUENCE OF CONSTRUCTION FOR ALL BASINS IS AS FOLLOWS:
 - PLACEMENT OF PERIMETER PROTECTIVE MEASURES (SILT FENCE, HAY BALES, ETC.) AROUND ONSITE LAKES, AT POINTS OF OFFSITE DISCHARGE, AND AROUND WORK AREAS.
 - REROUTE RUNOFF FROM AREAS OUTSIDE OF THE DEVELOPMENT AREA TO MINIMIZE FLOW THROUGH AREAS TO BE DISTURBED BY CONSTRUCTION. BERMS, SWALES AND OTHER MEANS USED FOR SUCH CONVEYANCE SHALL BE VEGETATED AND MEASURES TAKEN TO PROVIDE PROTECTION UNTIL STABILIZATION HAS BEEN ESTABLISHED.
 - SELECT LOCATIONS FOR PLACEMENT OF MATERIAL, WHETHER SUITABLE FOR FILL OR UNSUITABLE, AND CONSTRUCT CONTAINMENT BERMS AROUND THE AREA. THE USE OF STRIPPINGS FOR THIS PURPOSE MAY ACCELERATE BERM REVEGETATION. CONSTRUCT TEMPORARY OUTLETS FROM CONTAINMENT AREAS WITH SCREENS, HAY BALES, SETTLING BASINS OR OTHER MEASURES TO PREVENT SILT TRANSPORTATION.
 - SELECT/DESIGNATE ACCESS ROUTING FOR CONSTRUCTION EQUIPMENT AND VEHICLES AND PROVIDE PERIMETER PROTECTIVE MEASURES WHERE EXISTING TERRAIN WILL BE SUBJECT TO DISRUPTION BY SUCH TRAFFIC.
 - IF REQUIRED, CONSTRUCT ABOVE GROUND OR OTHER CONTAINMENT AREAS FOR CONSTRUCTION AREA RUNOFF. PROVIDE SCREENS, HAT BALES, ETC., TO FILTER DISCHARGE THESE AREAS.
 - GRASSING, SODDING, ETC. SHALL BE IN PLACE IMMEDIATELY UPON COMPLETION OF DISTURBED AREAS WITHIN PROJECT AREA.
- IN ANY EVENT, CONTRACTOR IS SOLELY RESPONSIBLE FOR ENSURING ANY AND ALL MEASURES ARE TAKEN TO COMPLY WITH LOCAL, STATE, FEDERAL AND OWNER REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION.
- BAHIA SOD REQUIRED AROUND ALL STORM INLETS IN UNPAVED AREAS.

- THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY HAS AUTHORIZED THE STATE OF FLORIDA TO ADMINISTER THE NATIONAL POLLUTANTS DISCHARGE ELIMINATION SYSTEM (N.P.D.E.S.). CONTRACTOR IS ADVISED THAT OPERATORS ARE REQUIRED TO FILE WITH F.D.E.P., A NOTICE OF INTENT TO USE THE GENERIC PERMIT FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES THAT DISTURB ONE OR MORE ACRES OF LAND. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO SUBMIT THE NOTICE OF INTENT (N.O.I.) TO F.D.E.P. WITH A COPY TO THE OWNER, THE ENGINEER AND THE COUNTY AT LEAST 48 HOURS BEFORE INITIATING CONSTRUCTION.
- AS REQUIRED BY THE GENERIC PERMIT, CONTRACTOR SHALL PREPARE A STORMWATER POLLUTION PREVENTION PLAN (S.W.P.P.P.) PURSUANT TO ALL REQUIREMENTS OF THE GENERIC PERMIT.
- PURSUANT TO THE N.P.D.E.S., CONTRACTOR SHALL MAINTAIN RECORDS OF DATES WHEN MAJOR GRADING ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE AND SHALL INITIATE STABILIZATION MEASURES WITHIN 14 DAYS AFTER SUCH TEMPORARY OR PERMANENT CESSATION OF CONSTRUCTION ACTIVITY. STABILIZATION REQUIREMENTS (SODDING WHERE SHOWN ON THE PLANS, SEEDING AND MULCHING ELSEWHERE) APPLY TO ALL AREAS DISTURBED BY CONSTRUCTION, ON-SITE AND OFF-SITE.
- CONTRACTOR SHALL PROVIDE INSPECTIONS BY QUALIFIED PERSONNEL OF ALL POINTS OF DISCHARGE, DISTURBED AREAS NOT YET FINALLY STABILIZED, STORAGE AREAS EXPOSED TO RAINFALL, STRUCTURAL CONTROLS AND VEHICULAR ACCESS LOCATIONS. INSPECTIONS SHALL BE MADE DAILY AND AFTER A STORM THAT IS 0.5 INCHES OR GREATER.
- CONTRACTOR SHALL MAINTAIN A COPY OF THE S.W.P.P.P. AT THE SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
- CONTRACTOR SHALL AMEND THE S.W.P.P.P. WHENEVER THERE IS A CHANGE IN DESIGN, CONTRACTION, OPERATION OF MAINTENANCE THAT MAY HAVE A SIGNIFICANT EFFECT ON THE POTENTIAL FOR OFF-SITE DISCHARGE OF POLLUTANTS, INCLUDING THE ADDITION OF OR CHANGE IN LOCATION OF DISCHARGE POINTS AND REVISION TO CONTROLS WHICH MAY HAVE PROVED TO BE INEFFECTIVE.
- CONTRACTOR SHALL REMAIN RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION PROTECTION MEASURES UNTIL CONSTRUCTION HAS BEEN COMPLETED IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT PLANS, CERTIFIED AS SUCH BY THE ENGINEER AND ACCEPTED BY THE OSCEOLA COUNTY, WHETHER OR NOT CONTRACTOR HAS SUBMITTED A NOTICE OF TERMINATION (N.O.T.) TO F.D.E.P.
- IF CONTRACTOR PROPOSES TO DISCHARGE Dewatering EFFLUENT OFF-SITE, HE SHALL COMPLY WITH FDEP'S "GENERIC PERMIT FOR DISCHARGE OF PRODUCE DRAINAGE WATER FROM ANY NON-CONTAMINATED SITE ACTIVITY". PERMIT REQUIREMENTS CAN BE OBTAINED FROM FDEP AT (407)894-7555 EXT.3985. THIS PERMIT IS INDEPENDENT OF AND IN ADDITION TO WATER MANAGEMENT DISTRICTS' PERMITS FOR CONSTRUCTION Dewatering.
- AT ANY PROJECT CONNECTION TO PUBLIC OR PRIVATE ROADWAYS THAT ARE TO BE USED BY CONSTRUCTION TRAFFIC, CONTRACTOR SHALL PROVIDE A SOIL TRACKING PREVENTION DEVICE CONFORMING TO FDOT STANDARD SPECIFICATION 104 AND THE DETAIL ON THIS SHEET.
- CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICES FOR MINIMIZING OFFSITE VEHICULAR TRACKING OF SEDIMENTS AND GENERATING DUST. PROPOSED METHODS SHALL BE AT A MINIMUM.
 - COVERING LOADED HAUL TRUCKS WITH TARPALINS.
 - REMOVING EXCESS DIRT FROM ROADS DAILY.
 - STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO FDOT STANDARD SPECIFICATION 104.
 - USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.
- THE SILT FENCE LOCATION DEPICTED IN THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND INSTALLATION OF SILT FENCE AND RELATED EROSION AND SILTATION CONTROL MEASURES IN COMPLIANCE WITH FDEP/MPDES REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF EROSION/SILTATION CONTROL FACILITIES TO PROTECT ADJACENT PROPERTIES AND ENVIRONMENTAL AREAS, AND ACCOMMODATE FINAL GRADING AS SHOWN IN THE PLANS.



- NOTES:
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AROUND TREES.
 - ALL UTILITY WORK SHALL BE DONE BY HAND WITHIN TREE ROOT IMPACT ZONE.
 - ALL EARTHWORK WITHIN A 10 FOOT RADIUS ZONE AROUND SAVED TREES SHALL BE NON-COMPACTED.
 - GRAVEL AND FILTER FABRIC SHALL BE INSTALLED AROUND SAVED TREES IN FILL AREAS A MINIMUM OF 12 FEET FROM EDGE OF TREE TRUNK AND TERMINATE AT PROPOSED CURB LINE AND/OR DRIP LINE CANOPY OF SAVED TREE. INSTALLATION SHALL BE FIELD DIRECTED TO DETERMINE LIMITS.

TREE SAVE GRADING DETAIL

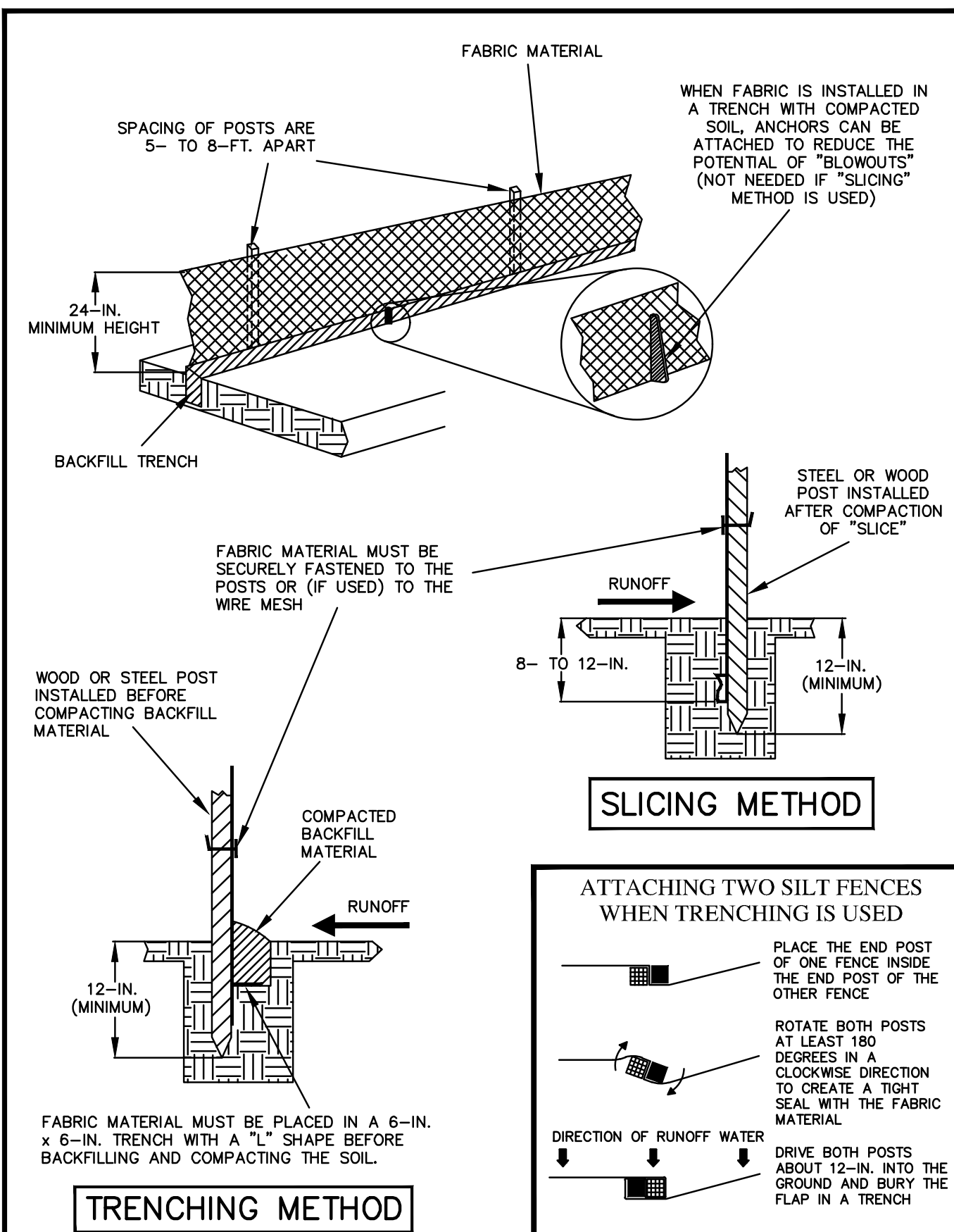


- NOTES:
- CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING AROUND TREES.
 - NO WORK SHALL BE DONE EXCEPT BY HAND WITHIN TREE ROOT IMPACT ZONE.

TREE SAVE GRADING DETAIL

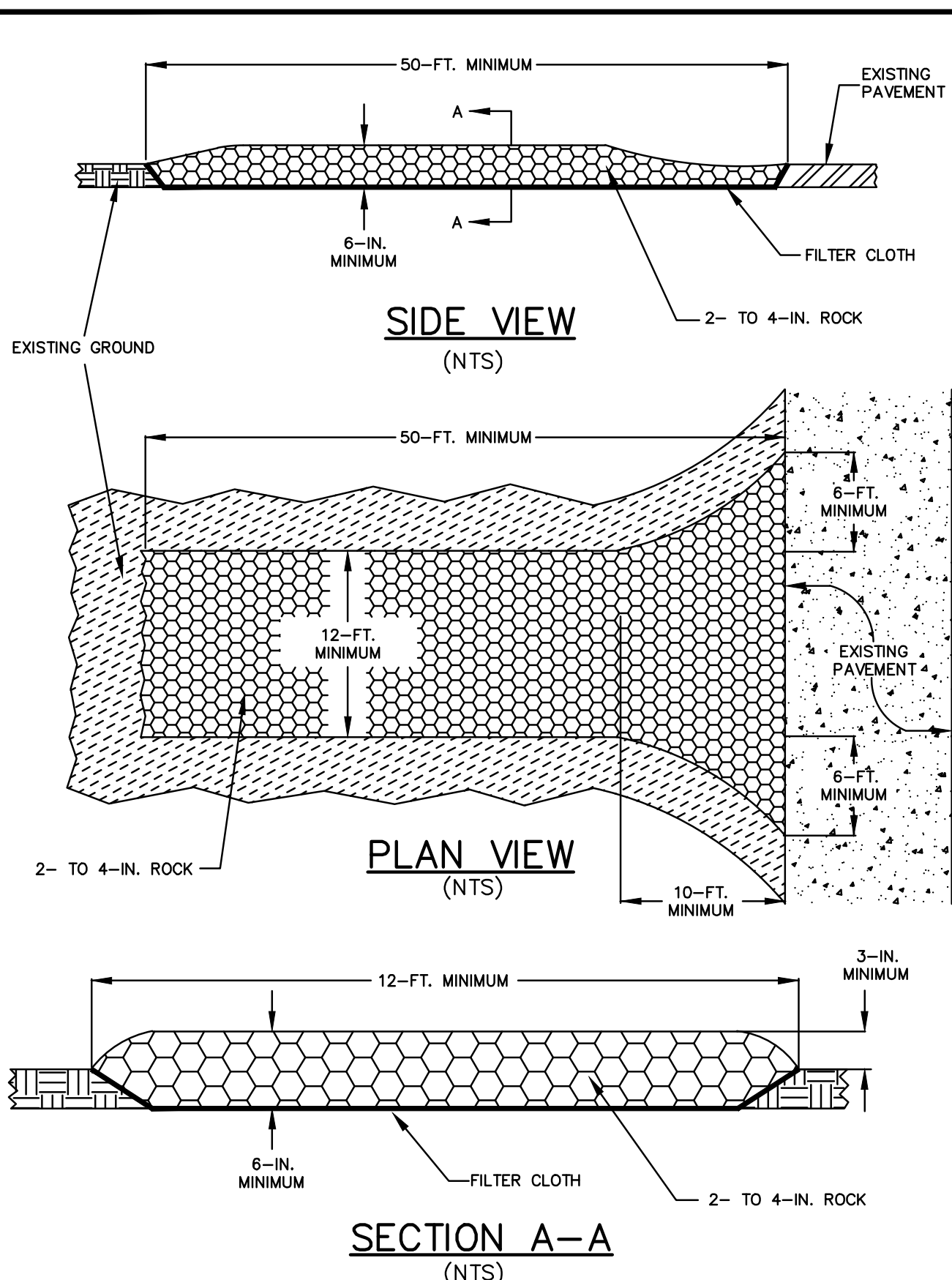
TREE PROTECTION NOTES

- PROTECT EXISTING TREES AND UNDERGROWTH TO REMAIN AGAINST:
 - UNNECESSARY CUTTING, BREAKING, OR SKINNING OF ROOTS AND LIMBS
 - SKINNING AND BRUISING OF BARK
 - SMOTHERING OF TREES BY STOCKPILING CONSTRUCTION OR EXCAVATION MATERIAL WITHIN DRIP-LINE
 - EXCESS FOOT OR VEHICULAR TRAFFIC
 - PARKING VEHICLES WITHIN DRIP-LINE
- ERECT TEMPORARY CONSTRUCTION FENCING BEFORE COMMENCEMENT OF ANY SITE CLEARING OR GRADING. FENCE SHALL BE A MINIMUM HEIGHT OF 4 FT. WITH STEEL POSTS SET DEEP ENOUGH IN THE GROUND TO BE STABLE WITHOUT ADDITIONAL SUPPORT. ALL FENCING SHOULD BE SET BEYOND THE DRIP-LINE OF EXISTING TREES AND A MINIMUM OF 10' CLEAR DISTANCE FROM THE FACE OF ANY TREES AND SHALL FULLY ENCLOSE ALL TREES AND UNDERGROWTH SCHEDULED TO REMAIN. NOTHING SHALL BE PLACED INSIDE OF THE FENCE, INCLUDING BUT NOT LIMITED TO, CONSTRUCTION MATERIALS, MACHINERY, CHEMICALS, OR TEMPORARY SOIL DEPOSITS. FOR TREES LARGER THAN 20" DBH, THE FENCE SHALL BE NO CLOSER THAN 15' FROM FACE OF TREE. WHEN PAVING, EXCAVATION, OR HARDCAPE MUST BE DONE WITHIN THE FENCE, THE FENCE SHALL BE MOVED TO A SECONDARY LOCATION AT THE EDGE OF WORK. EXTRA CARE MUST BE TAKEN AT THIS TIME BY THE CONTRACTOR TO INSURE THAT NO DAMAGE TO THE TREE AND UNDERGROWTH OCCURS.
- PROVIDE WATER TO TREES AND UNDERGROWTH AS REQUIRED TO MAINTAIN THEIR HEALTH DURING CONSTRUCTION.
- FOR GRADE CUTS WITHIN THE DRIP LINES, ROOTS SHALL NOT BE TRACTOR CLEARED. LIMIT OF CONSTRUCTION SHALL BE DETERMINED, FENCE PLACED, AND ROOTS CUT CLEAN WITH A POWER SAW. CLEAN CUTS WILL AVOID "SHEARPING" OF ROOTS. COVER EXPOSED ROOTS WITH MOST MULCH TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE.
- NO CLEARING OF UNDERGROWTH SHALL TAKE PLACE WITHOUT PRIOR APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE. WHEN THE CLEARING OF UNDERGROWTH DOES TAKE PLACE, IT SHALL BE DONE BY QUALIFIED TREE SURGEON (LANDSCAPE CONTRACTOR) UNDER THE DIRECTION OF THE OWNER OR THEIR REPRESENTATIVE. MULCH SHALL BE IMMEDIATELY PLACED OVER ANY CLEARED UNDERGROWTH AREA TO PROTECT SURFACE ROOTS OF TREES.
- NO GRADE CHANGES ARE TO BE MADE WITHIN THE FENCE WITHOUT PRIOR APPROVAL OF THE OWNER OR THEIR REPRESENTATIVE.
- INTERFERING BRANCHES MAY BE REMOVED AT THE DIRECTION OF THE OWNER OR HIS REPRESENTATIVE BY A QUALIFIED TREE SURGEON.
- THE CONTRACTOR SHALL REPAIR OR REPLACE TREES INDICATED TO REMAIN, WHICH ARE DAMAGED IN THE CONSTRUCTION OPERATIONS, IN A MANNER ACCEPTABLE TO THE OWNER. EMPLOY A QUALIFIED TREE SURGEON TO REPAIR MAJOR DAMAGE TO TREES AND SHRUBS. PROMPTLY, TO PREVENT PROGRESSIVE DETERIORATION CAUSED BY THE DAMAGE. CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE OWNER OR THEIR DESIGNATED REPRESENTATIVE OF REPAIRS OR RECOMMENDATIONS FROM THE TREE SURGEON.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TREES DAMAGED BEYOND REPAIR. TREES SHALL BE REPLACED ON AN INCH FOR INCH BASIS WITH TREES OF 5" CALIPER OR GREATER OF THE SAME SPECIES EQUALING THE OVERALL CALIPER OF THE TREE REMOVED. IF A 20" CALIPER TREE IS REMOVED, IT SHALL BE REPLACED WITH 4-5" CALIPER TREES. REPLACEMENT TREES SHALL BE "FLORIDA #1 GRADE" OR BETTER. IF TREES ARE HARMED THROUGH LACK OF PROTECTION OR NEGLIGENCE, THE CONTRACTOR SHALL BEAR THE BURDEN OF COST OF REPAIR OR REPLACEMENT.



SILT FENCE BARRIER INSTALLATION

THE SILT FENCE LOCATED DEPICTED IN THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND INSTALLATION OF SILT FENCE AND RELATED EROSION AND SILTATION CONTROL MEASURES IN COMPLIANCE WITH FDEP/MPDES REQUIREMENTS AND REGULATIONS. CONTRACTOR SHALL COORDINATE THE LOCATION AND INSTALLATION OF EROSION/SILTATION CONTROL FACILITIES TO PROTECT ADJACENT PROPERTIES AND ENVIRONMENTAL AREAS, AND ACCOMMODATE FINAL GRADING AS SHOWN IN THE PLANS.



SOIL TRACKING PREVENTION DEVICE

NOTES

- FLOATING TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR FLOATING TURBIDITY BARRIER, LF.
- STAKED TURBIDITY BARRIERS ARE TO BE PAID FOR UNDER THE CONTRACT UNIT PRICE FOR STAKED TURBIDITY BARRIER, LF.
- THIS SHEET CONTAINS STANDARD DRAWINGS AND NOTES OF THE UTILITY SERVICE PROVIDER. IT MAY CONTAIN INFORMATION THAT DIFFERS FROM THAT CONTAINED IN PROJECT NOTES, SPECIFICATIONS, AND DETAILS SHOWN ELSEWHERE IN THE PLANS. TYPICALLY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY, SUBJECT TO DETERMINATION BY THE ENGINEER. ITEMS SHOWN THAT MAY BE OUTSIDE OF THE DISCIPLINE OF THE CIVIL/SITE ENGINEER ARE NOT INCLUDED IN THE ENGINEER'S CERTIFICATION.

GENERAL NOTES:

- SEE NOTES, SPECIFICATIONS & LEGEND SHEET FOR ADDITIONAL INFORMATION.
- THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.

DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

PLANNERS
SURVEYORS

ENGINEERS

CONCEPTUAL MASS GRADING PLANS
OSCEOLA COUNTY, FLORIDA

EROSION CONTROL AND TREE
PRESERVATION DETAILS

DRAWING
1/189-EROSDT

SHEET
C102

11 OF 33

JAMES C. NUGENT
FLORIDA P.E. No. 57553
DATE: _____

JOB NUMBER
13189
SCALE
NTS
DATE
5/2/18
CHECKED BY
JCN
DESIGNED BY
DSW

NO. _____
DATE _____
REVIEWS _____
CHK _____

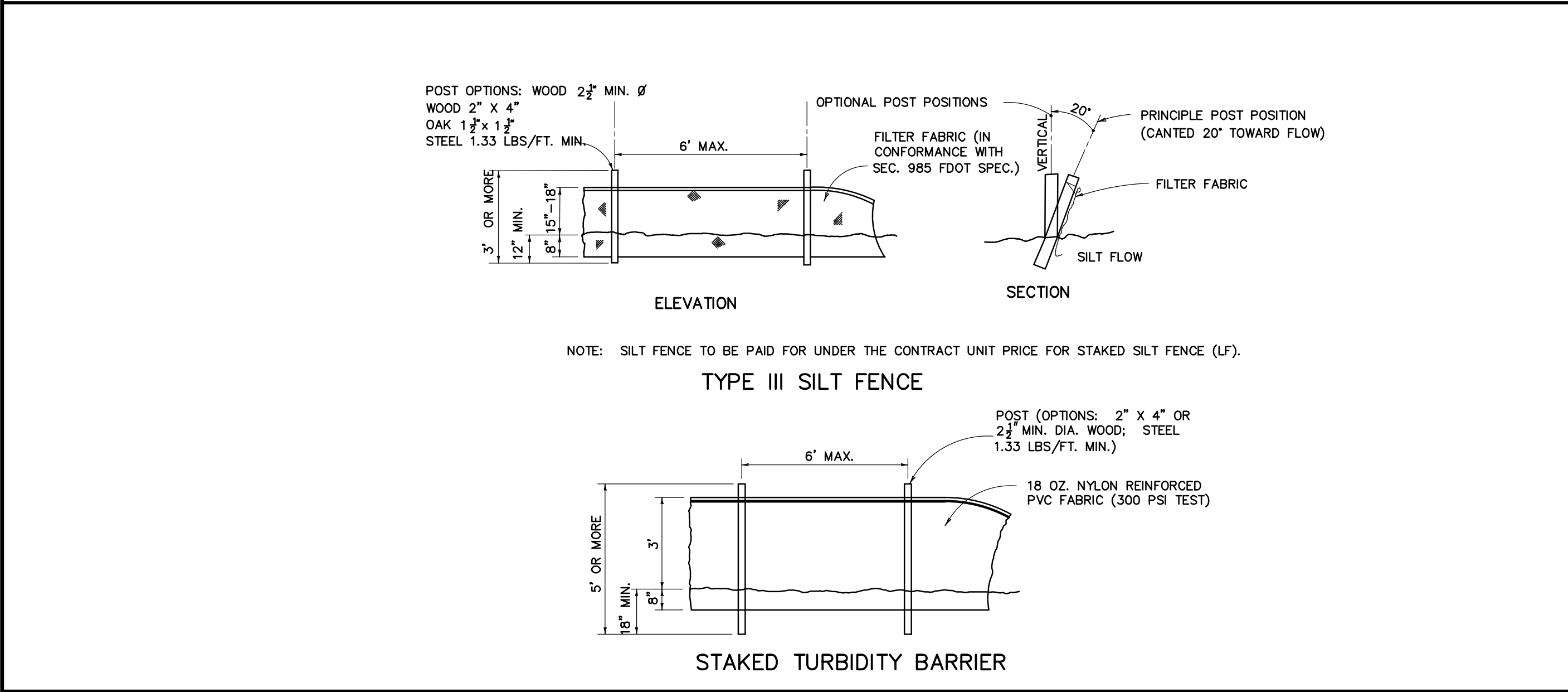
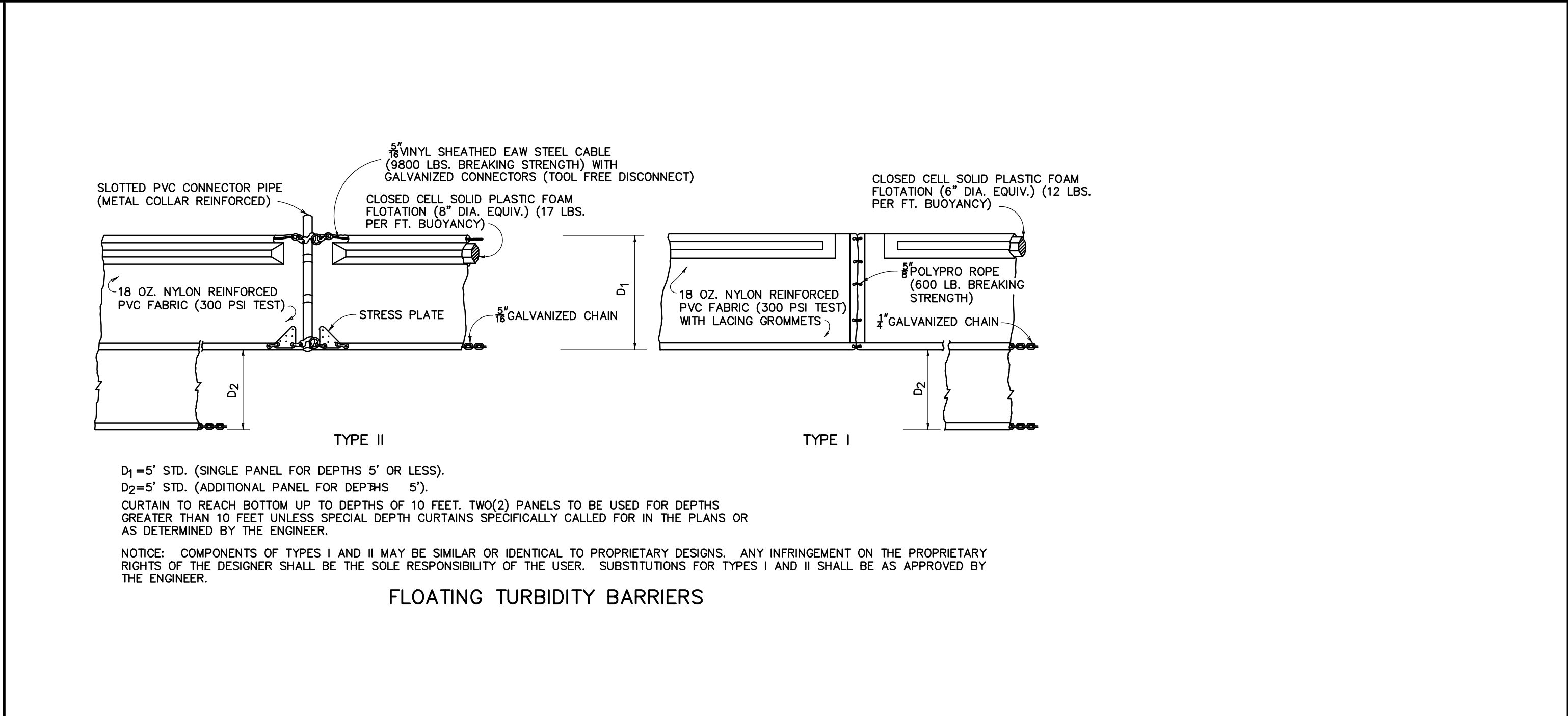
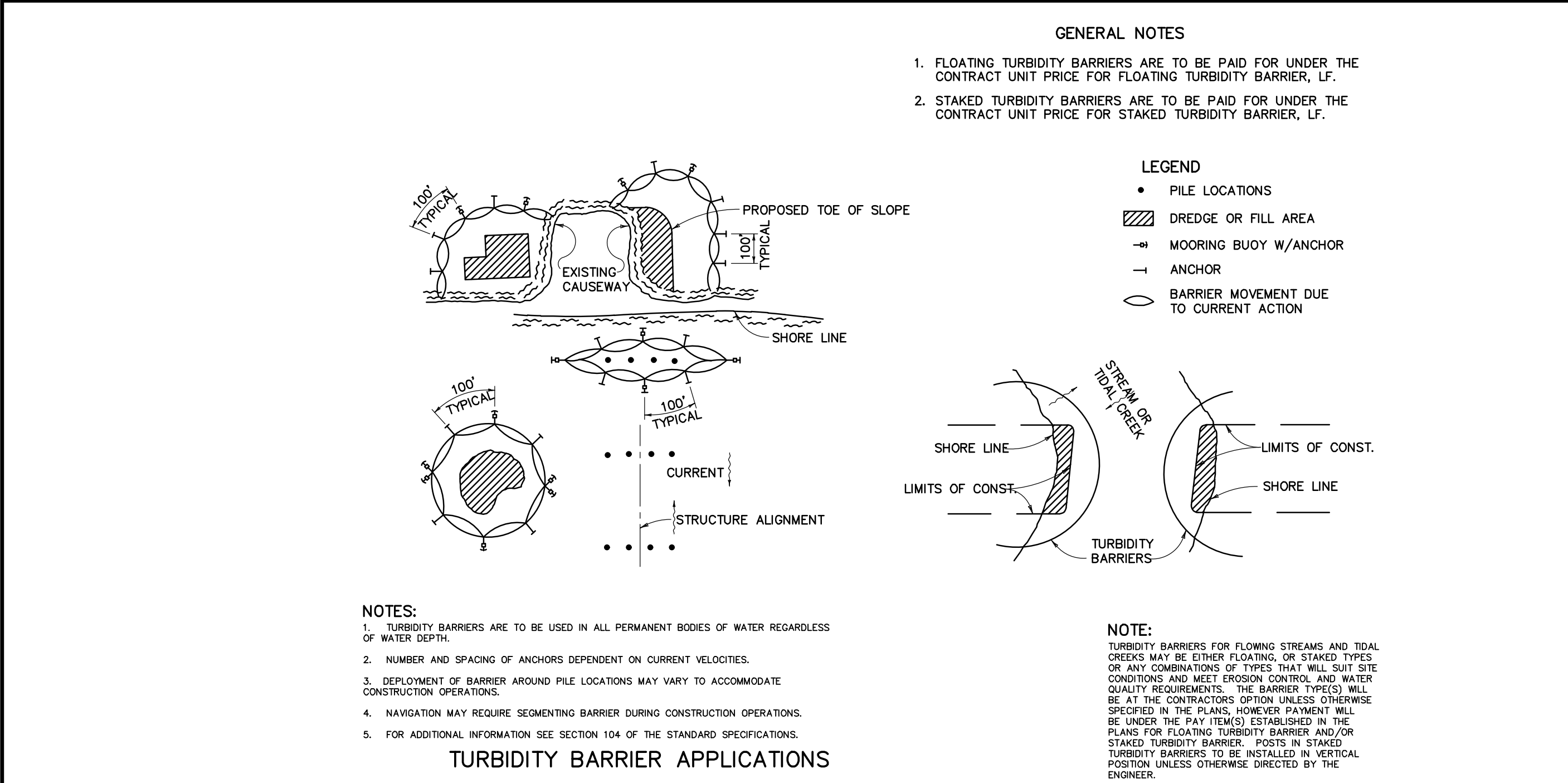
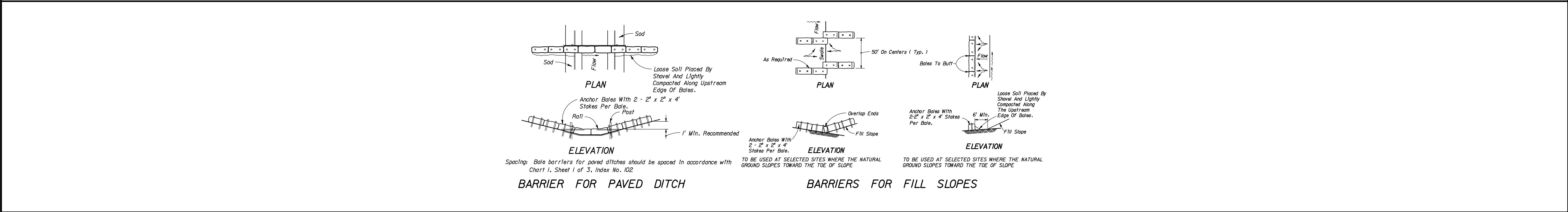
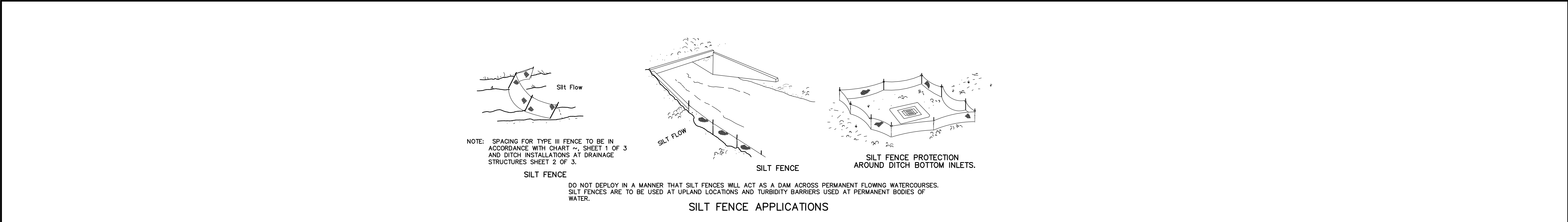
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Exhibit No. 2.0.1B

Permit No. 49-100503-P

Page 2 of 24

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TURBIDITY MONITORING REQUIRED:

DESCRIPTION: TURBIDITY EXPRESSED IN NEPHELOMETRIC TURBIDITY UNITS (NTU).

LOCATION: BACKGROUND--SAMPLES SHALL BE TAKEN 200 FEET UPSTREAM OF ANY CONSTRUCTION ACTIVITY WITHIN SURFACE WATERS OF THE STATE.

COMPLIANCE: SAMPLES SHALL BE TAKEN 200 FEET DOWNSTREAM OF THE CONSTRUCTION ACTIVITIES ADJACENT TO OR WITHIN WATERS OF THE STATE.

FREQUENCY: TWICE DAILY, WITH AT LEAST A FOUR HOUR INTERVAL, DURING ALL WORK AUTHORIZED BY THIS PERMIT.

DURATION: MONITORING SHALL BEGIN ON THE FIRST DAY OF CONSTRUCTION FOR ALL ACTIVITIES AND MAY BE DISCONTINUED UPON PERMANENT STABILIZATION OF ALL DISTURBED SOILS.

STANDARDS & REPORTING: THE MONITORING DATA MUST DEMONSTRATE THAT TURBIDITY AT THE COMPLIANCE SITE IS LESS THAN OR EQUAL TO 29 NTU'S ABOVE NATURAL BACKGROUND FOR A PERIOD OF 7 CONSECUTIVE DAYS AFTER COMPLETION OF CONSTRUCTION. ALL MONITORING DATA SHALL BE READ AND RECORDED DAILY, AND SUBMITTED TO THE OWNERS AUTHORIZED REPRESENTATIVE (O.A.R.) BY 5:00 P.M. EACH FRIDAY. IF AT ANY TIME THE TURBIDITY EXCEEDS BACKGROUND BY MORE THAN 29 NTU'S, ALL CONSTRUCTION ACTIVITIES SHALL BE HALTED, A WRITTEN REPORT FAXED TO THE DISTRICT POST PERMIT COMPLIANCE DEPARTMENT IN ORLANDO.

MONITORING REPORTS SHALL ALSO INCLUDE THE FOLLOWING INFORMATION FOR EACH SAMPLE THAT IS TAKEN:

1. TIME OF DAY SAMPLES WERE TAKEN
2. DEPTH OF WATER BODY
3. DEPTH OF SAMPLES
4. ANTECEDENT WEATHER CONDITIONS, AND;
5. WIND DIRECTION AND VELOCITY
6. SAMPLE LOCATION MAP

CORRECTIVE ACTIONS: REMEDIAL MEASURES SHALL BE TAKEN IMMEDIATELY TO CORRECT THE PROBLEM. ACTIVITIES SHALL RESUME ONLY WITH THE CONFIRMATION FROM DISTRICT STAFF THAT THE SITUATION HAS BEEN RESOLVED.

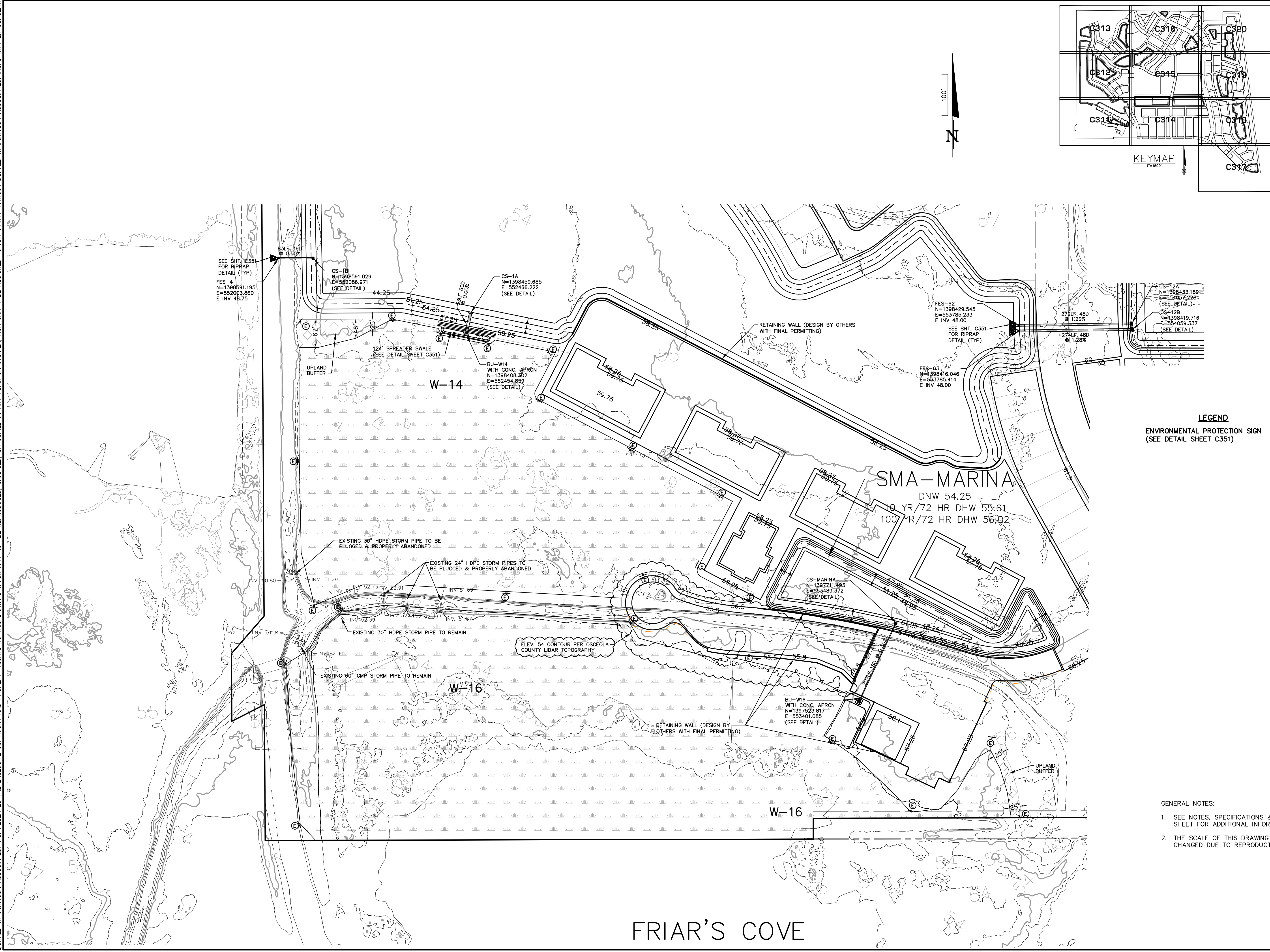
TURBIDITY MONITORING: CONTRACTOR IS RESPONSIBLE FOR TURBIDITY MONITORING & REPORTING.

GENERAL NOTES:

1. SEE NOTES, SPECIFICATIONS & LEGEND SHEET FOR ADDITIONAL INFORMATION.
2. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.

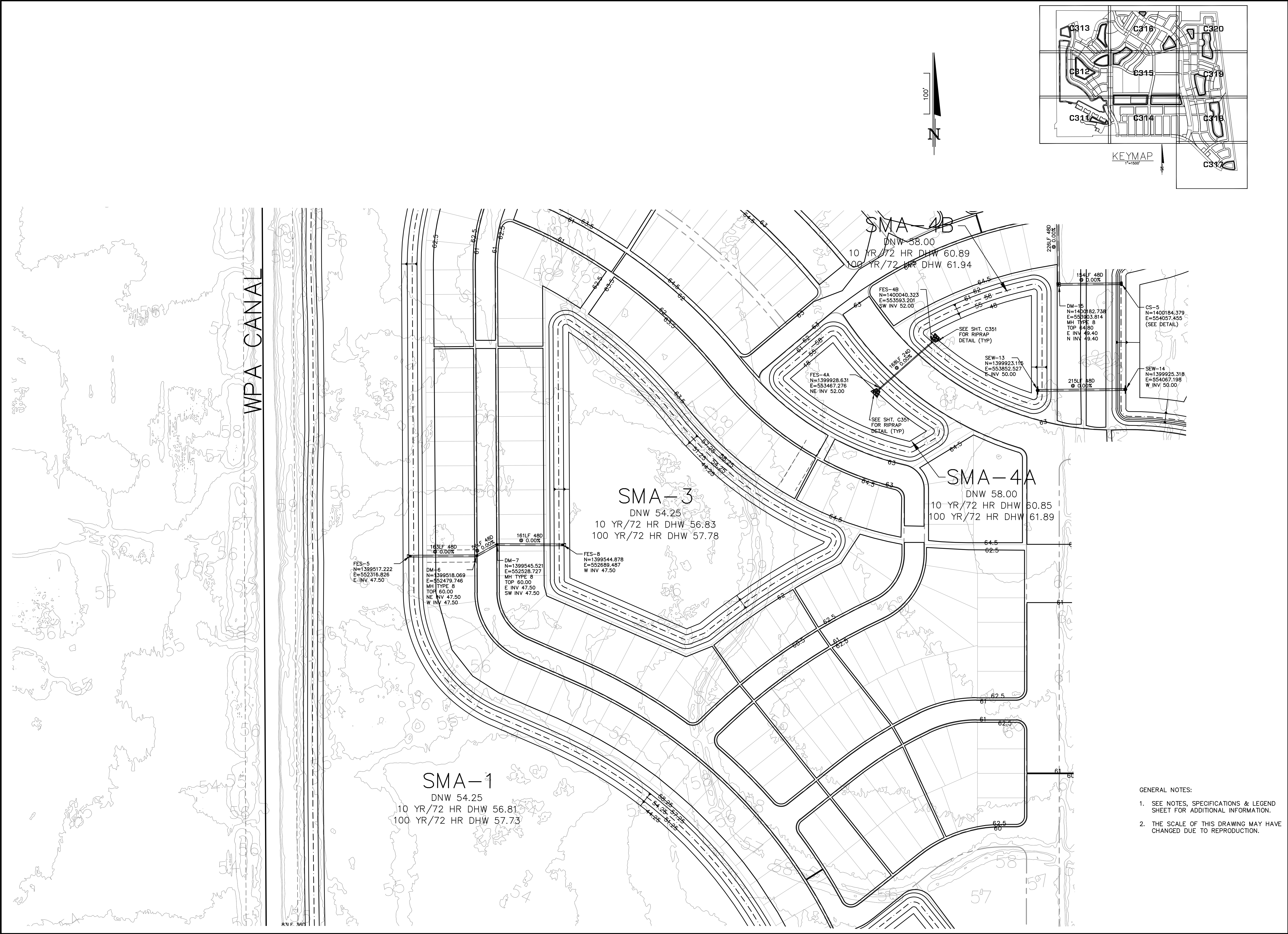
DRAWING 13189-EROSDT	SHEET C103	12 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA EROSION CONTROL AND TREE PRESERVATION DETAILS	DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	CHECKED BY DSW	DESIGNED BY DSW	DATE 5/2/18	SCALE NTS	JOB NUMBER 13189	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	NO.	DATE	REVISIONS	CHK

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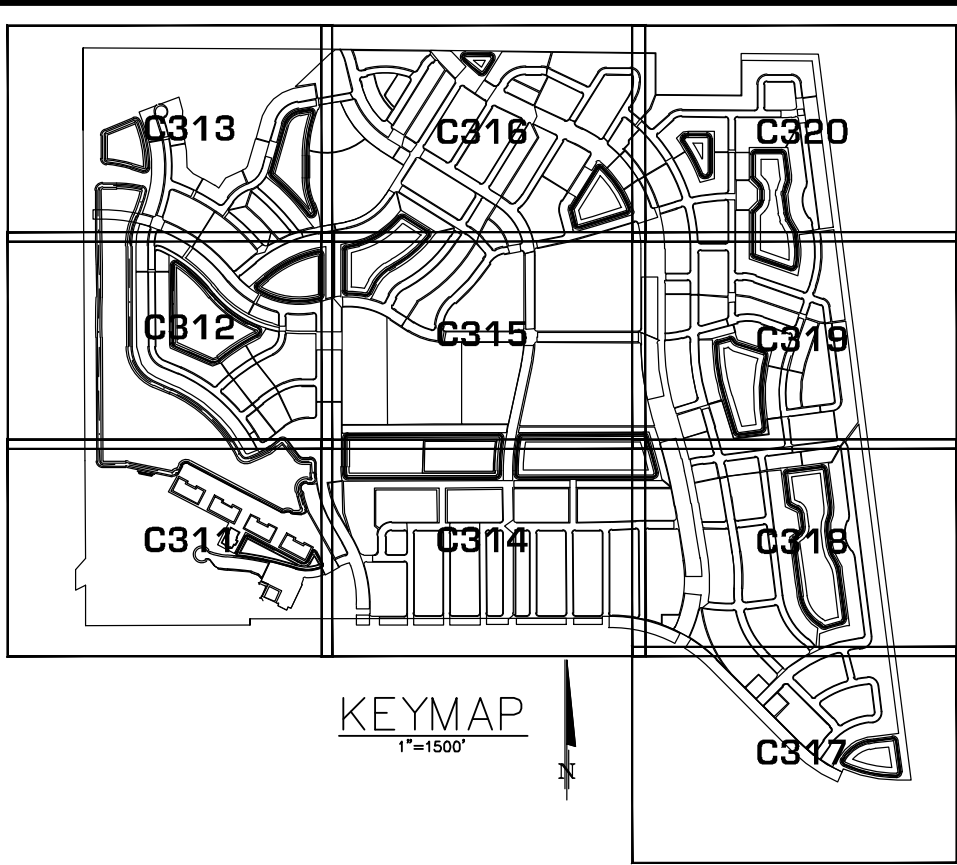


DRAWING 13189-GD	SHEET C311	14 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA GRADING AND DRAINAGE PLAN				DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68				JAMES C. NIJENT FLORIDA P.E. No. 57553			
			DESIGNED BY	DSW	CHECKED BY	JCN	DATE	5/2/18	SCALE	1"=100'	JOB NUMBER	13189	DATE	
			REVISIONS	NO.	DATE									
			3	6/17/21	REVISED PER SPWAD COMMENTS	JCN								
			2	2/22/21	REVISED GRADING & DRAINAGE	JCN								
			1	6/12/18	REVISED PER SPWAD COMMENTS	JCN								

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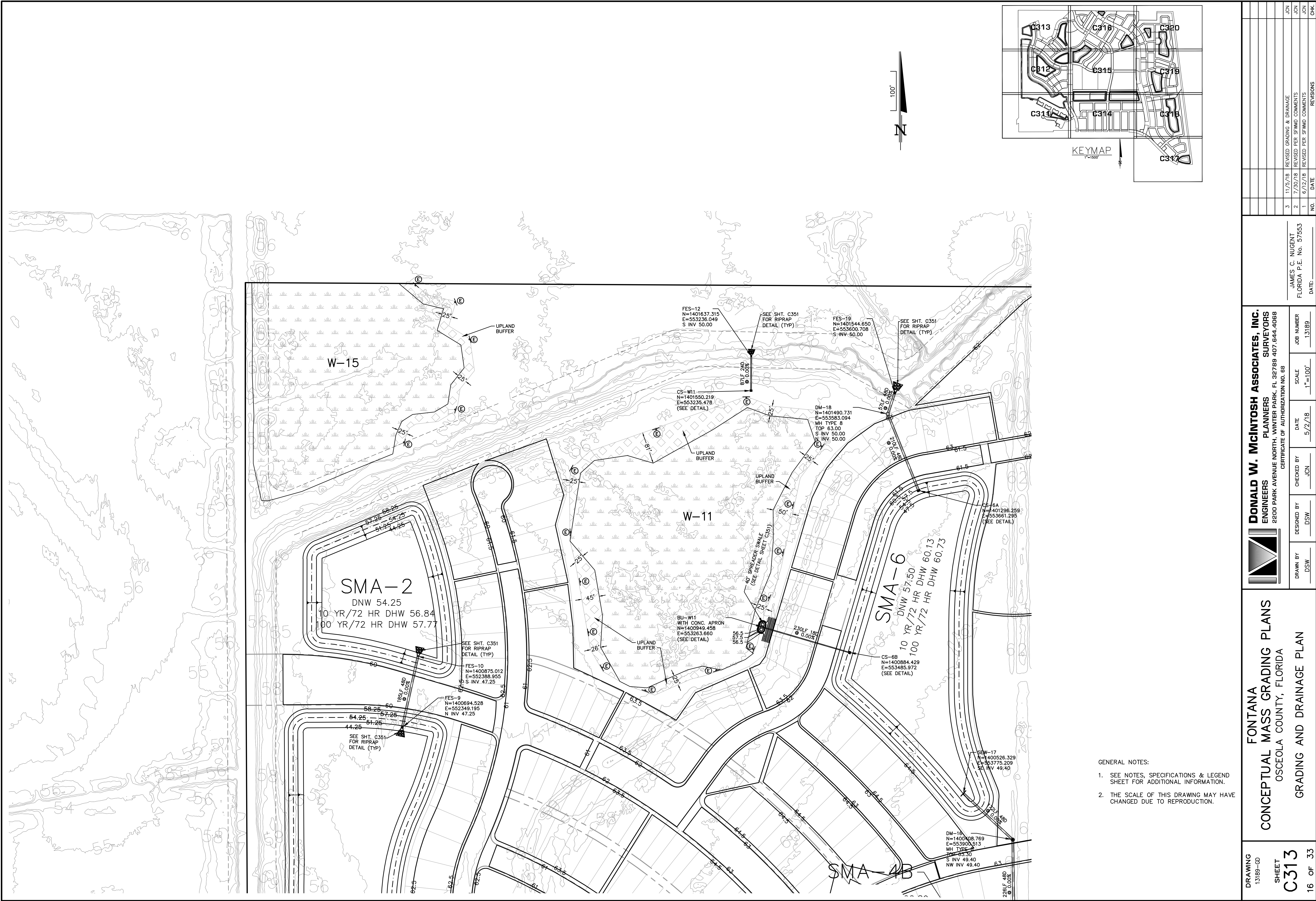


- GENERAL NOTES:
1. SEE NOTES, SPECIFICATIONS & LEGEND SHEET FOR ADDITIONAL INFORMATION.
 2. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.

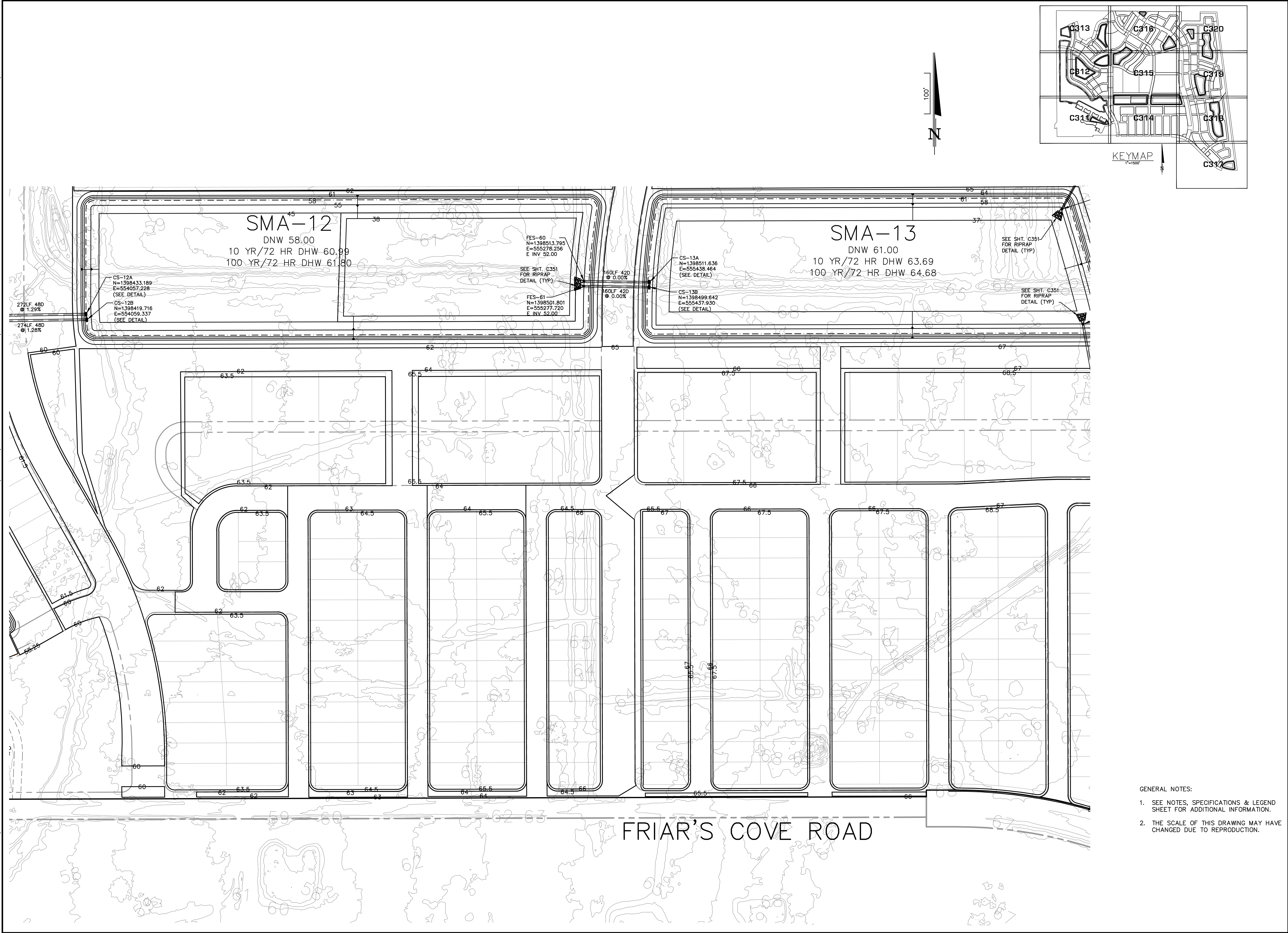


DRAWING 13189-GD	SHEET C312	15 OF 33	FONTANA		CONCEPTUAL MASS GRADING PLANS		OSCEOLA COUNTY, FLORIDA		GRADING AND DRAINAGE PLAN			DONALD W. MCINTOSH ASSOCIATES, 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DRAWN BY		DSW		DESIGNED BY		DSW		CHECKED BY		JCN		DATE		5/2/18		SCALE		1"=100'		JOB NUMBER		13189		JAMES C. NUGENT										FLORIDA P.E. No. 57553										DATE: 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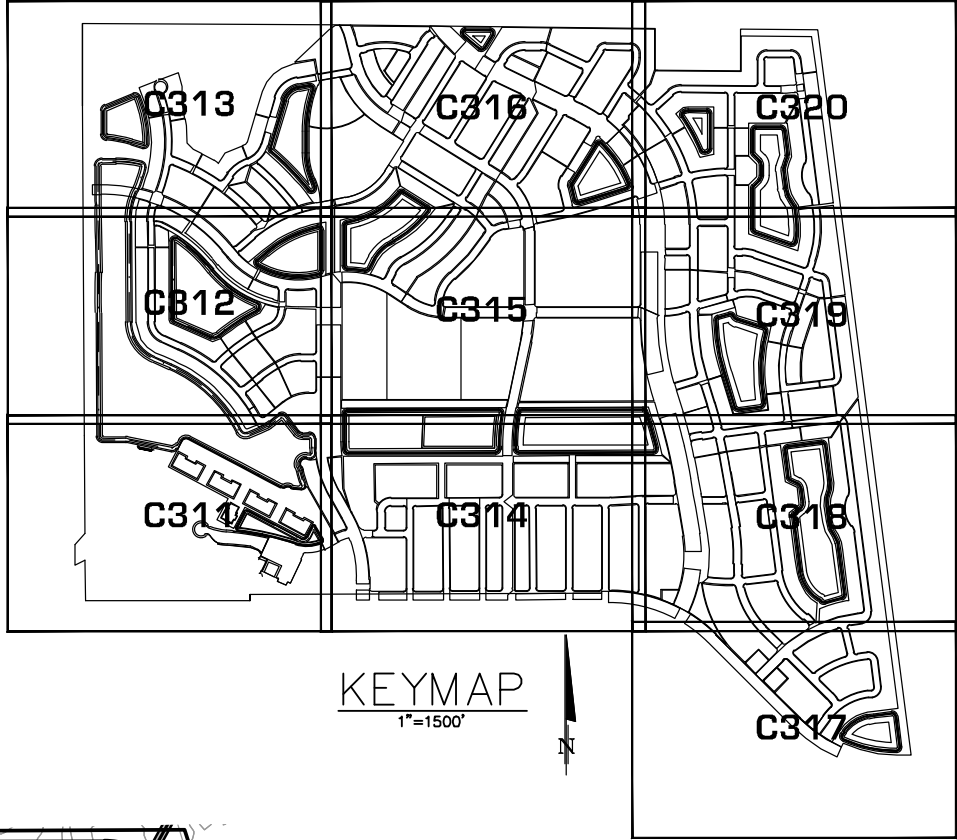
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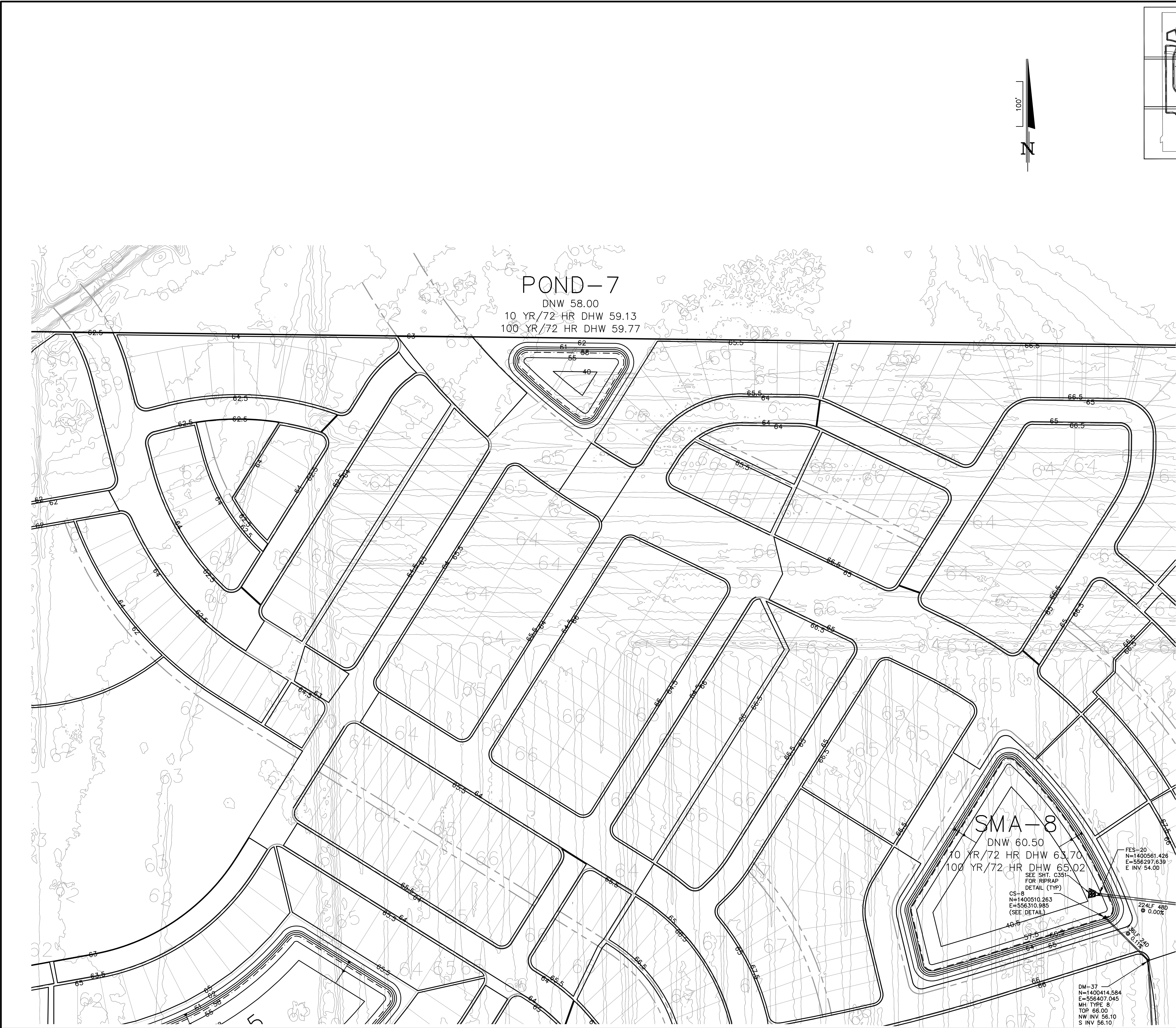
DRAWING 13189-GD	SHEET C314	17 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA GRADING AND DRAINAGE PLAN										 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	PLANNERS SURVEYORS		JOB NUMBER 13189		SCALE 1"=100'		DATE 5/2/18		CHECKED BY JCN		DESIGNED BY DSW		DRAWN BY DSW		JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____		NO. DATE		REVISIONS		CHK.

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DRAWING 13189-GD SHEET C315 18 OF 33	FONTANA				DONALD W. MCINTOSH ASSOCIATES, INC.				JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____															
	CONCEPTUAL MASS GRADING PLANS				ENGINEERS		PLANNERS						SURVEYORS											
	OSCEOLA COUNTY, FLORIDA				2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068		CERTIFICATE OF AUTHORIZATION NO. 68																	
	GRADING AND DRAINAGE PLAN				DESIGNED BY		CHECKED BY						DATE		SCALE		JOB NUMBER							
					DSW		JCN						5/2/18		1"=100'		13189							

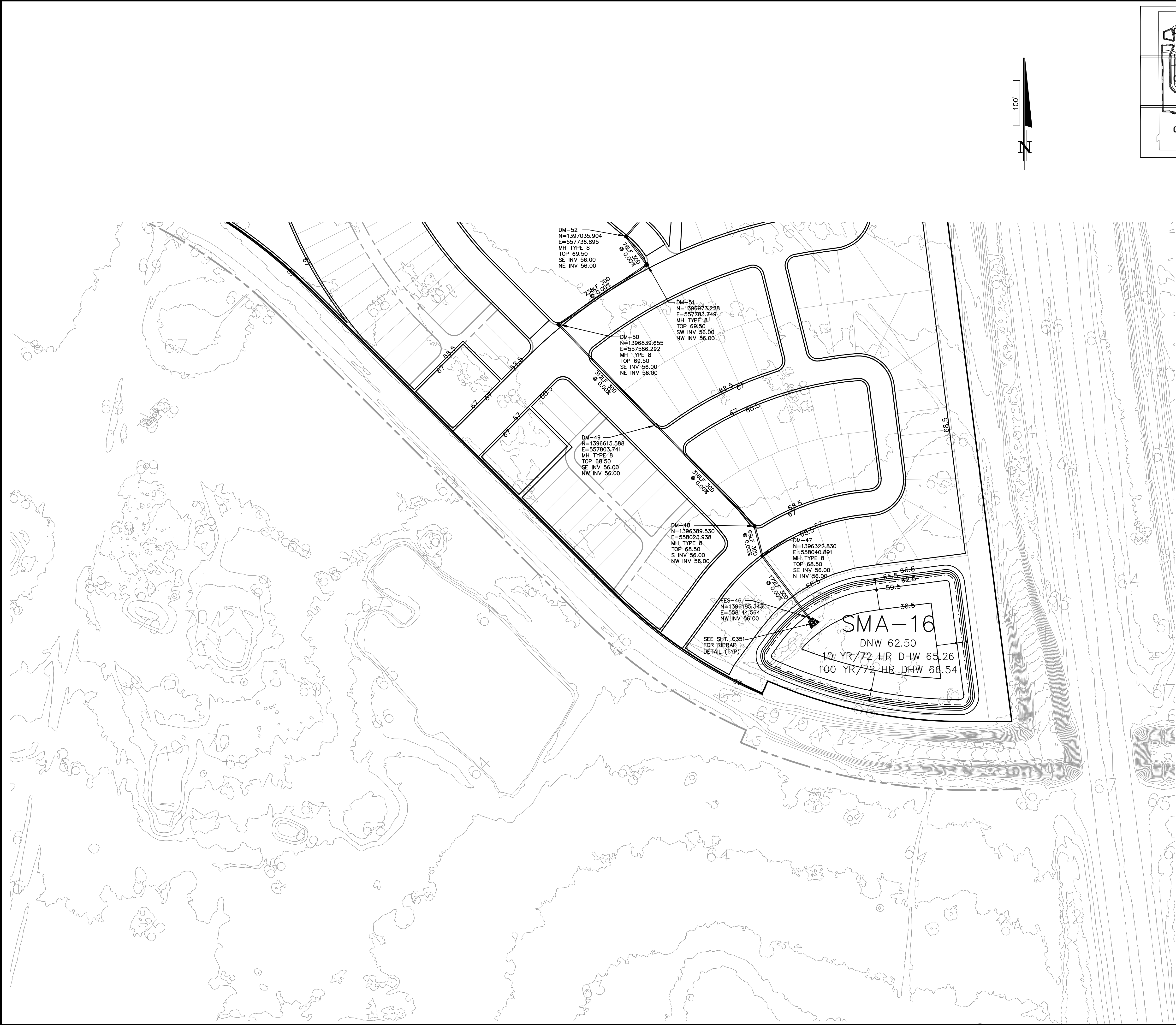


GENERAL NOTES:

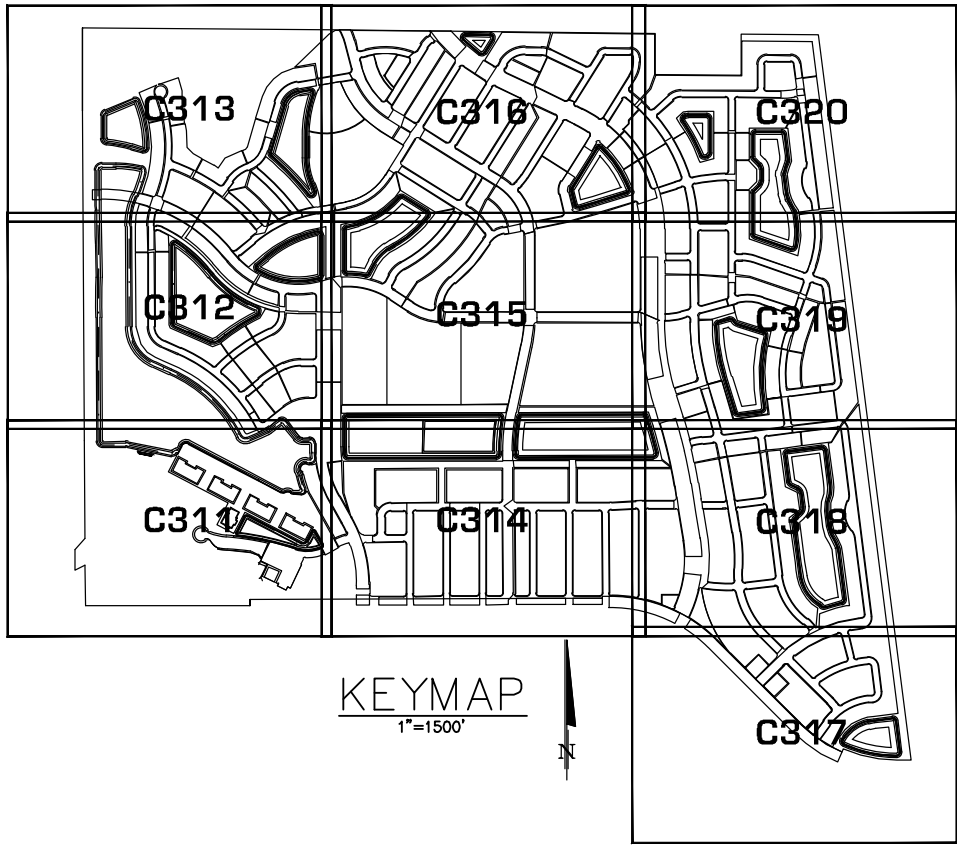
1. SEE NOTES, SPECIFICATIONS & LEGEND SHEET FOR ADDITIONAL INFORMATION.
2. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.

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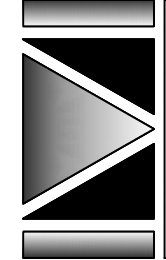
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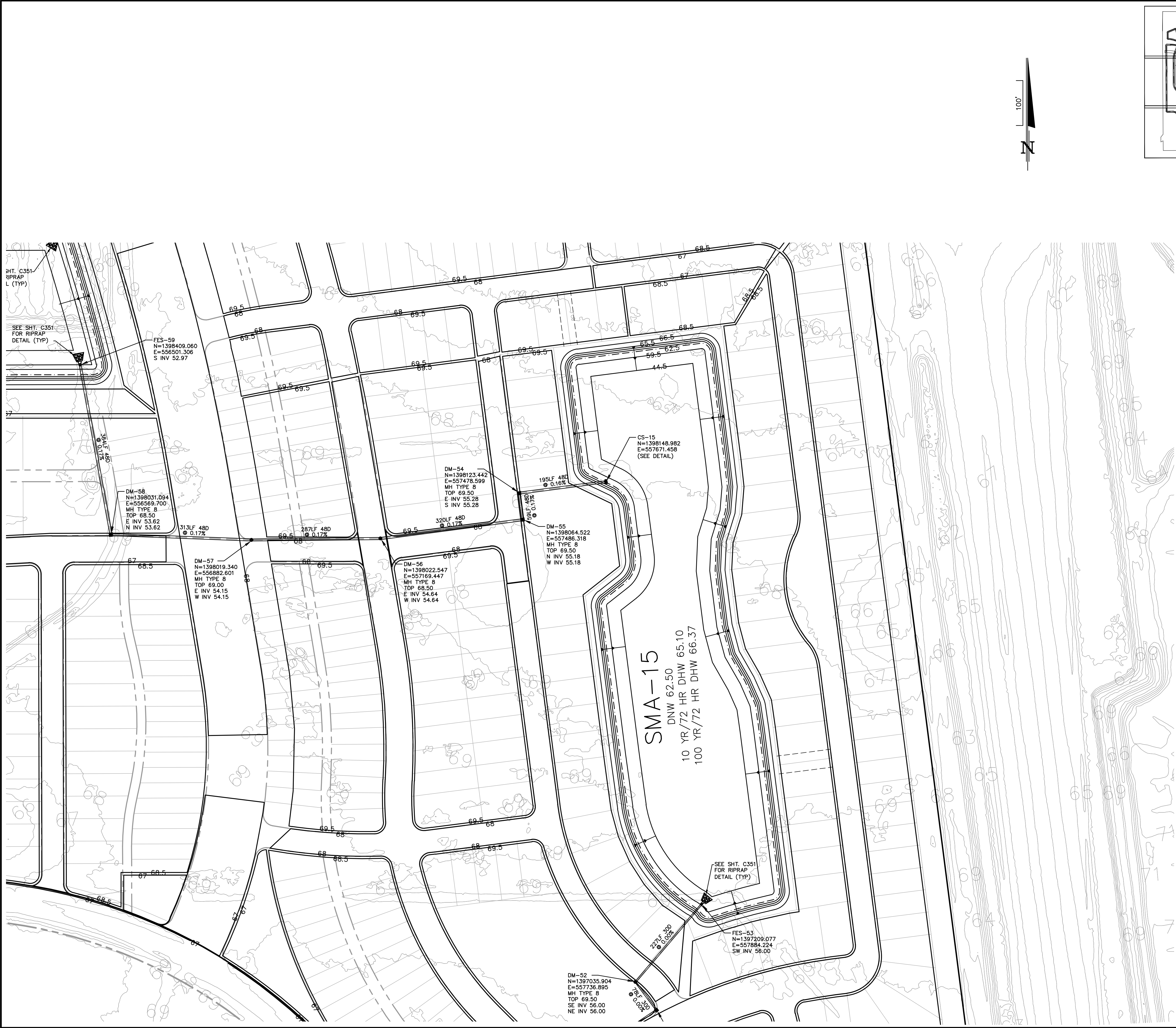
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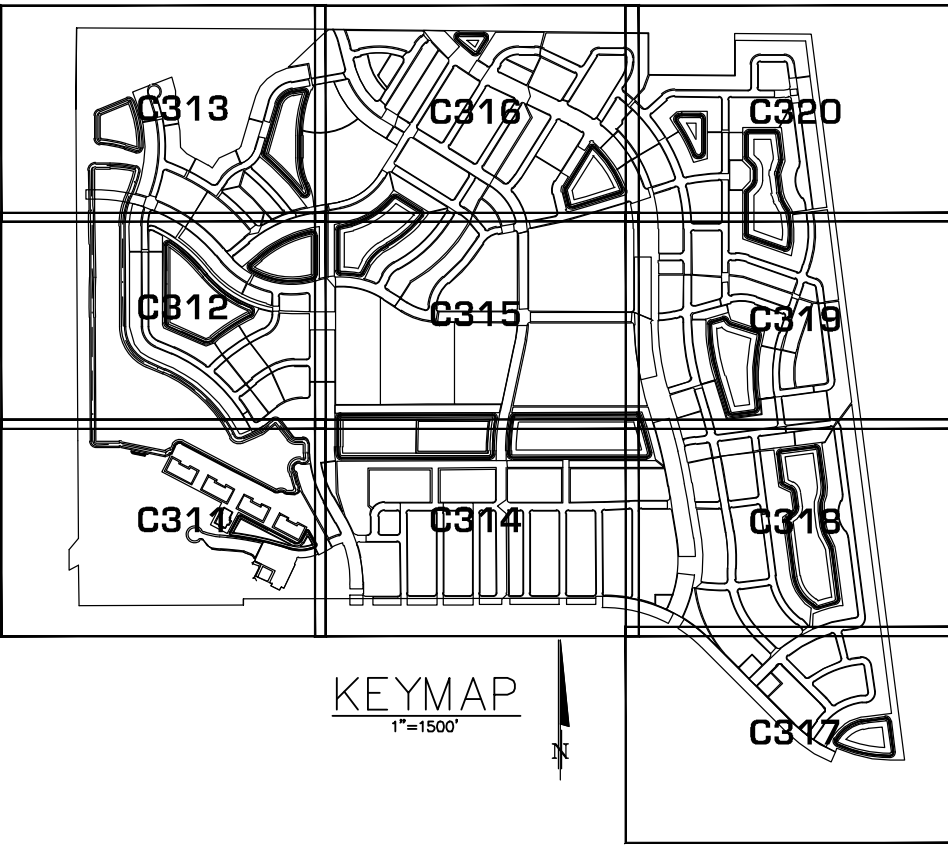
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DRAWING 13189-GD SHEET C317 20 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA GRADING AND DRAINAGE PLAN	 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	PLANNERS SURVEYORS JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	NO.	DATE	REVISIONS	CHK.

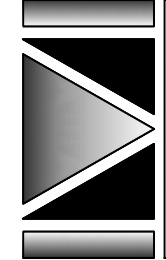
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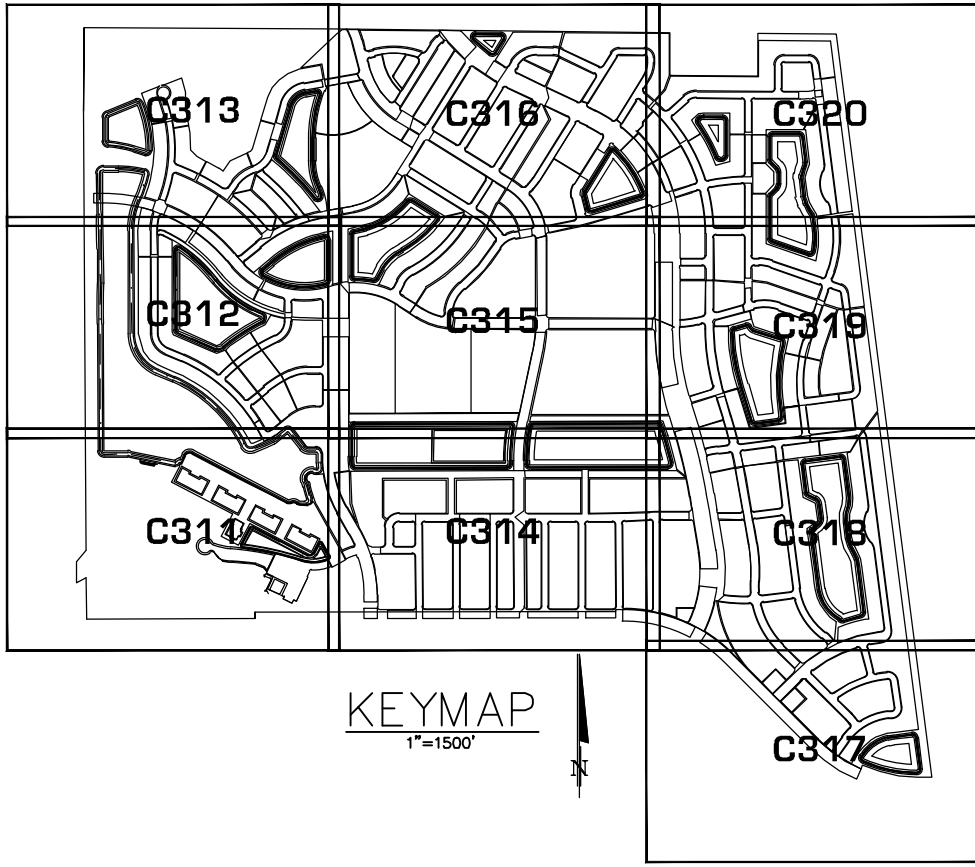
- GENERAL NOTES:
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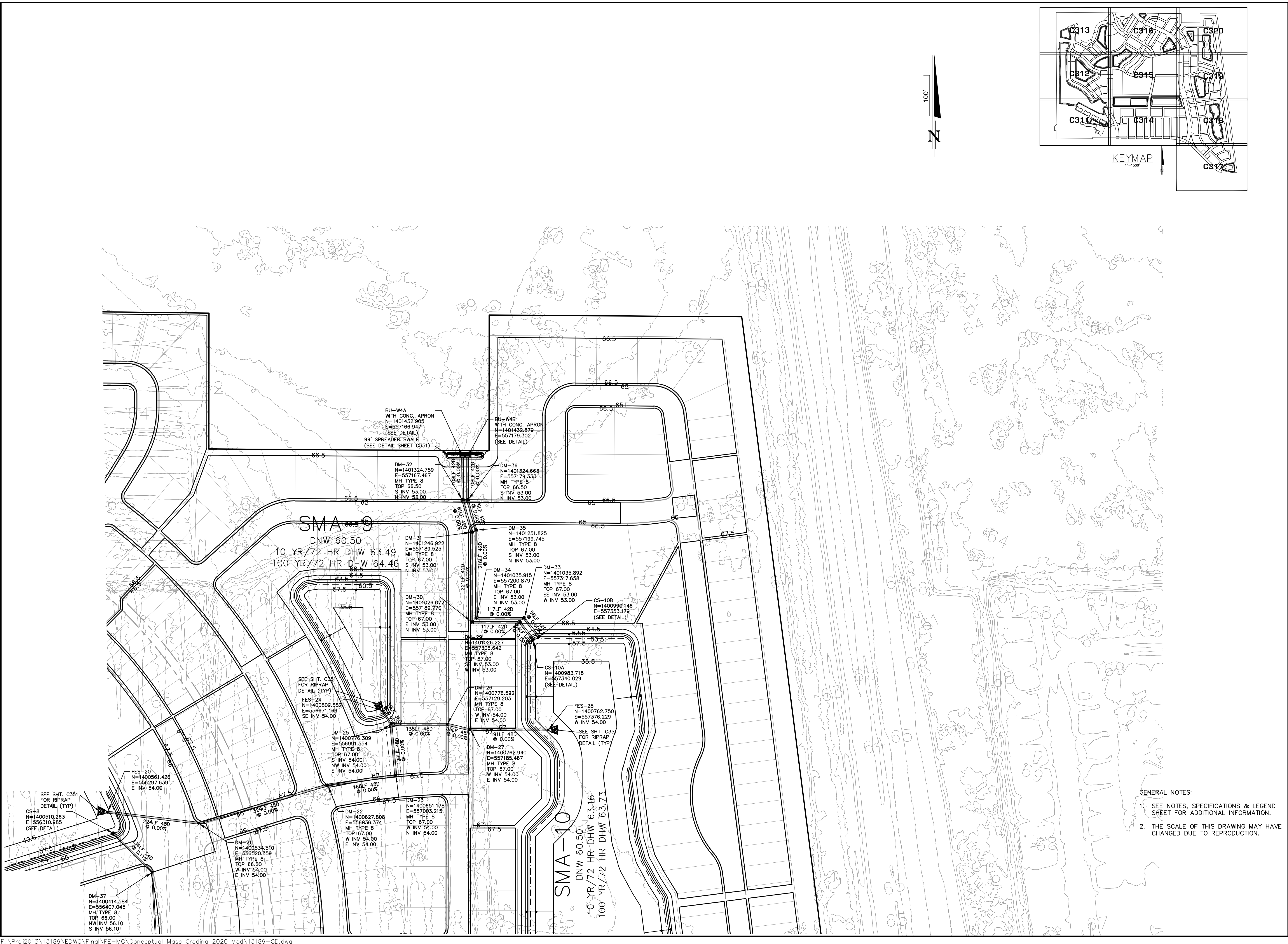
DRAWING 13189-GD SHEET C318 21 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA GRADING AND DRAINAGE PLAN	 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	PLANNERS SURVEYORS JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____				NO.	DATE	REVISIONS	CHK.
			CHECKED BY _____ JCN	DATE _____ 5/2/18	SCALE _____ 1"=100'	JOB NUMBER _____ 13189				

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DRAWING 13189-GD	SHEET C319	22 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA GRADING AND DRAINAGE PLAN				DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68				JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____			
			DESIGNED BY _____				CHECKED BY _____				JOB NUMBER 13189			
			DRAWN BY _____				DATE 5/2/18				SCALE 1"=100'			
			NO. _____				DATE _____				REVISIONS _____			



DRAWING 13189-GD	FONTANA
SHEET	CONCEPTUAL MASS GRADING PLANS
C320	OSCEOLA COUNTY, FLORIDA
23 OF 33	GRADING AND DRAINAGE PLAN



DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS
PLANNERS
SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.844.4088
CERTIFICATE OF AUTHORIZATION NO. 68

DRAWN BY DSW	DESIGNED BY DSW	CHECKED BY JCN	DATE 5/2/18	SCALE 1"=100'	JOB NUMBER 13189
JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____					
No.	Date				
		REVISIONS			
		CHK.			

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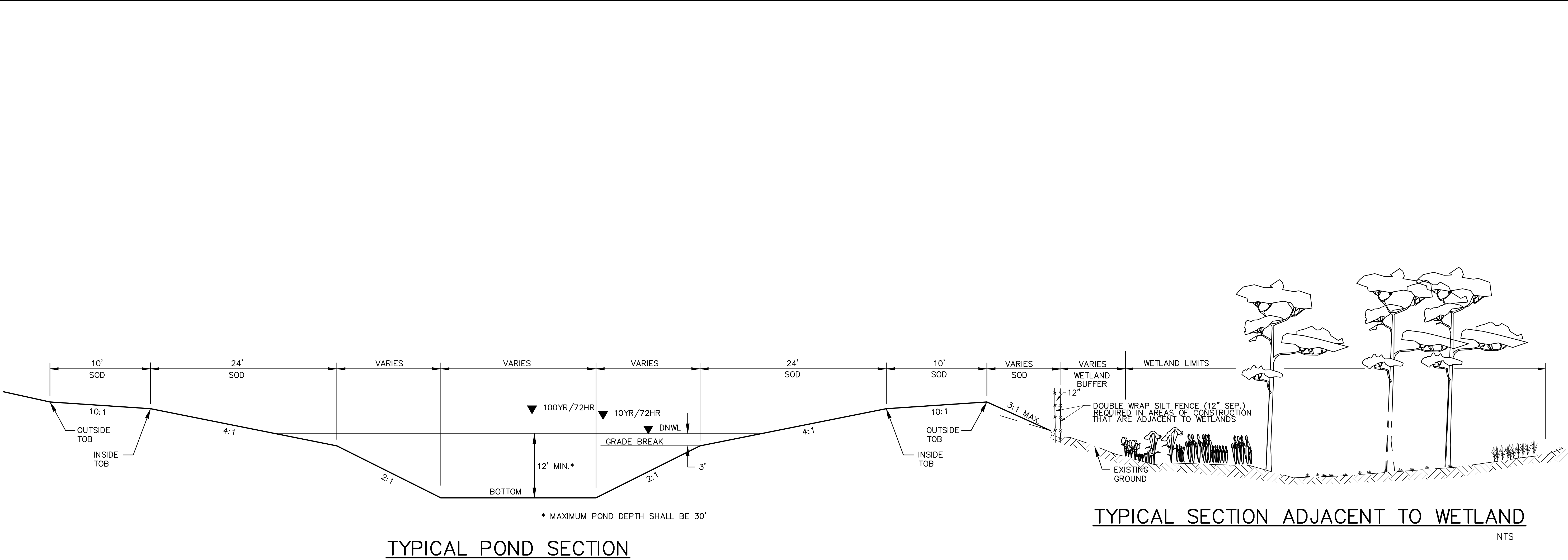


TABLE					
SMA No.	Design Normal Water	10year-72hour Design High Water	100year-72hour Design High Water	Grade Break	Outside Berm
SMA -1	54.25	56.76	57.65	51.25	58.25
SMA -2	54.25	56.78	57.69	51.25	58.25
SMA -3	54.25	56.77	57.69	51.25	58.25
SMA -4A	58.00	60.86	61.89	55.00	62.00
SMA -4B	58.00	60.90	61.95	55.00	62.00
SMA -5	58.00	60.82	61.85	55.00	62.00
SMA -6	57.50	60.12	60.73	54.50	61.50
POND -7	58.00	59.13	59.77	55.00	62.00
SMA -8	60.50	63.70	65.02	57.50	65.00
SMA -9	60.50	63.49	64.46	57.50	64.50
SMA -10	60.50	63.16	63.73	57.50	64.50
SMA -12	58.00	60.98	61.78	55.00	62.00
SMA -13	61.00	63.68	64.68	58.00	65.00
SMA -14	62.00	64.71	65.89	59.00	66.00
SMA -15	62.50	65.05	66.35	59.50	66.50
SMA -16	62.50	65.21	66.53	59.50	66.50
SMA -MARINA	54.25	55.62	56.04	51.25	58.25

NOTE: CONTRACTOR TO REFERENCE DEWATERING PLANS FOR CONSTRUCTION SPECIFICATIONS AS OUTLINED IN THE SFWMD CONSTRUCTION DEWATERING PERMIT.

GENERAL NOTES:

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DRAWING
13189-TYPDOT

SHEET
C321

24 OF 33

FONTANA
CONCEPTUAL MASS GRADING PLANS
OSCEOLA COUNTY, FLORIDA

TYPICAL POND SECTIONS AND DETAILS

DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

JAMES C. NUGENT
FLORIDA P.E. No. 57553

DATE: _____

CHECKED BY
JCN

DESIGNED BY
DSW

DRAWN BY
DSW

CHECKED BY
JCN

DESIGNED BY
DSW

DRAWN BY
DSW

DATE
5/2/18

SCALE
AS SHOWN

JOB NUMBER
13189

PLANNERS
SURVEYORS
FLORIDA P.E. No. 57553

DATE: _____

NO. 1

DATE 11/5/18

REVISIONS

NO. 2

DATE 1/30/19

REVISIONS

NO. 3

DATE 6/17/21

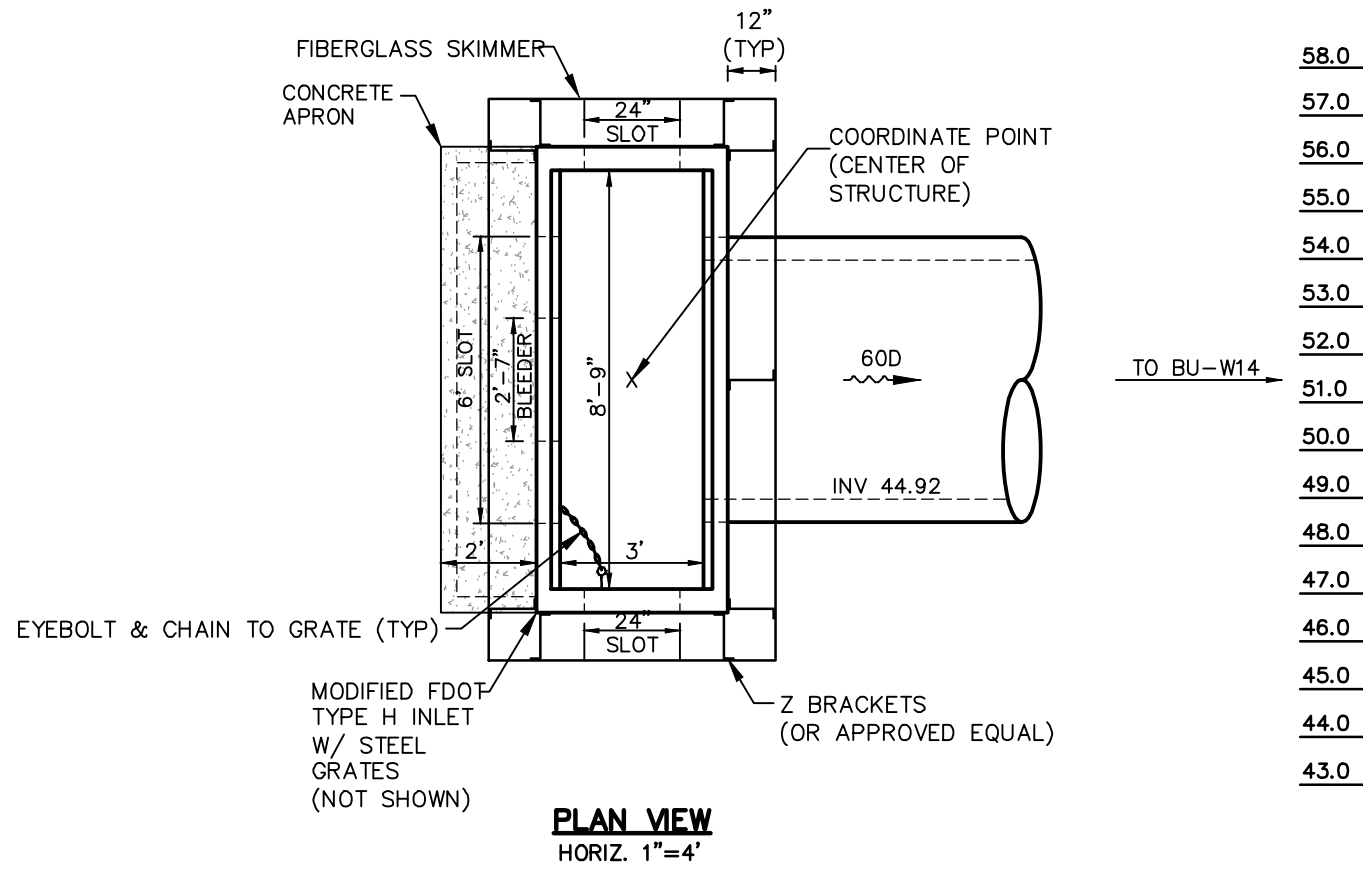
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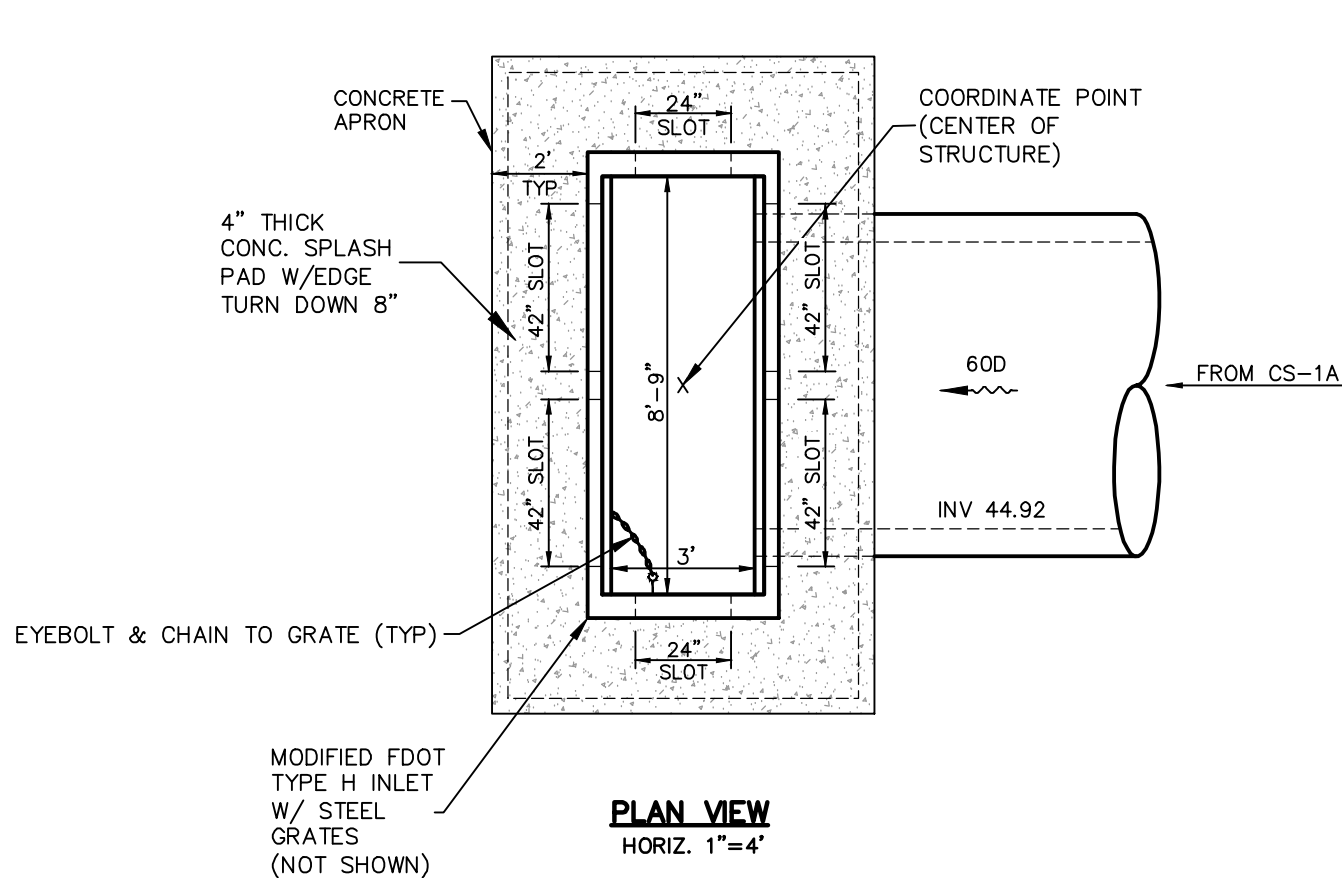
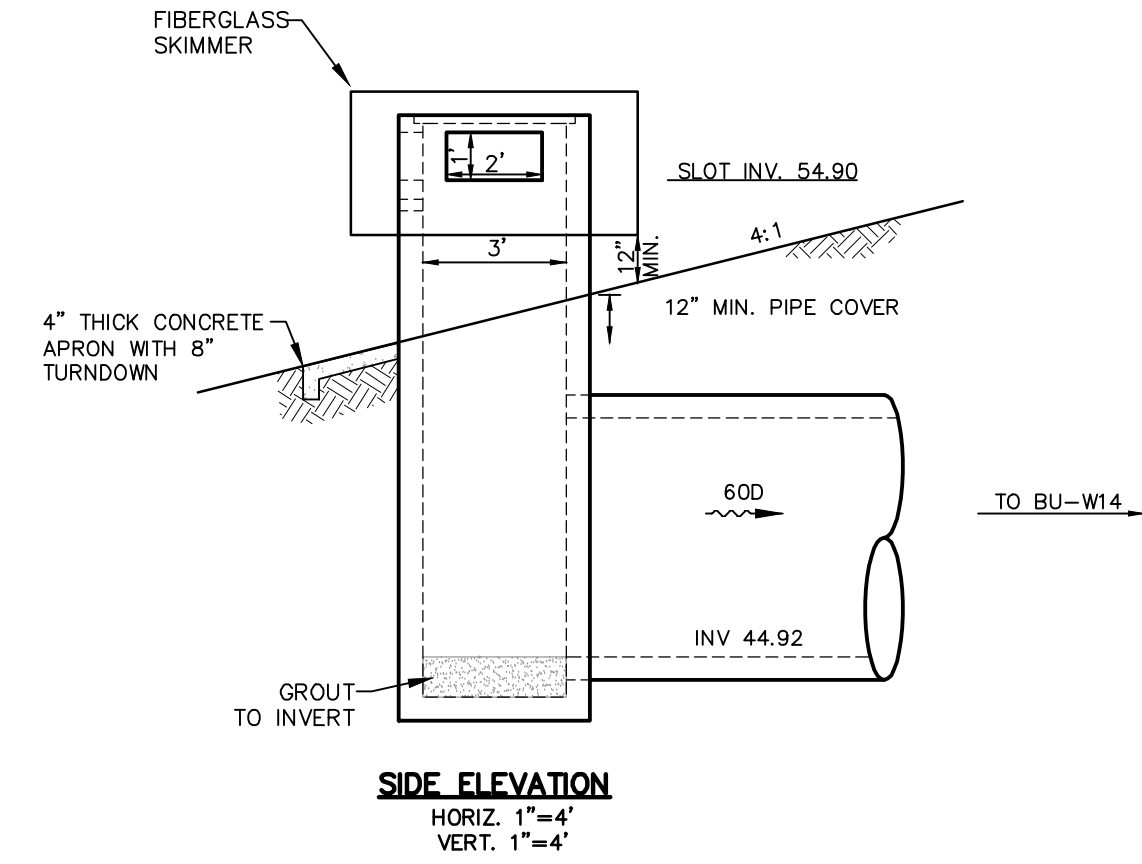
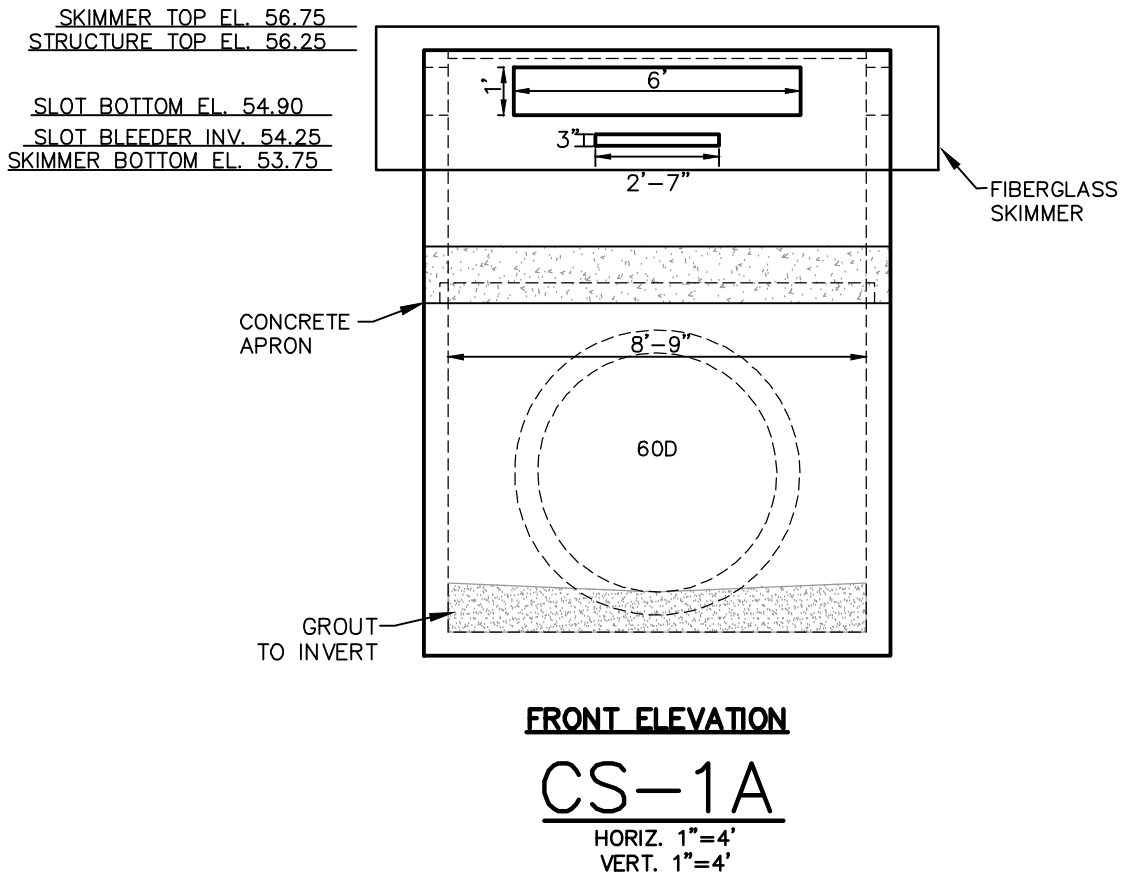
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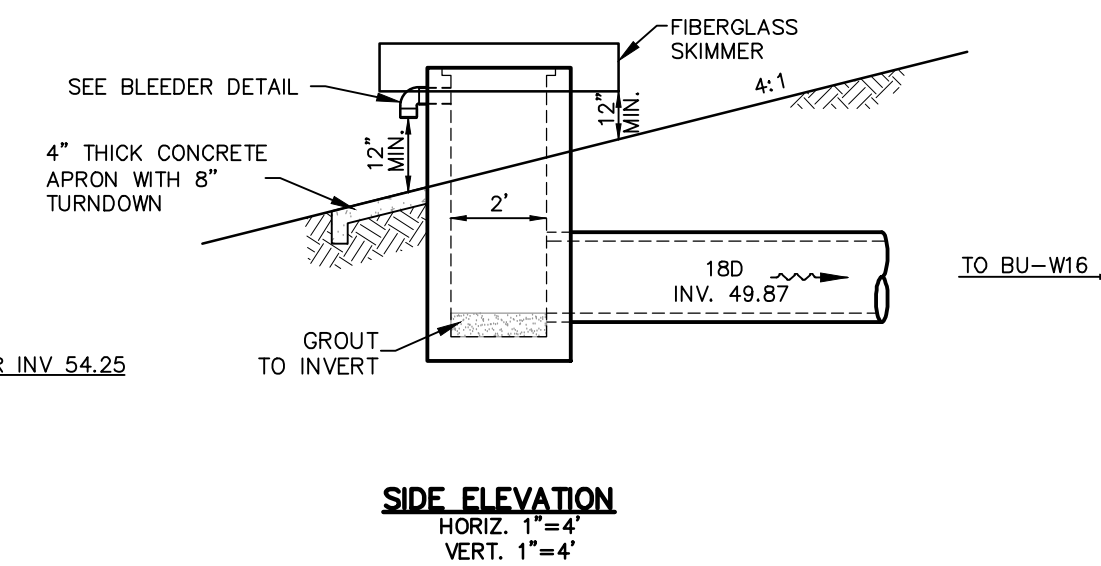
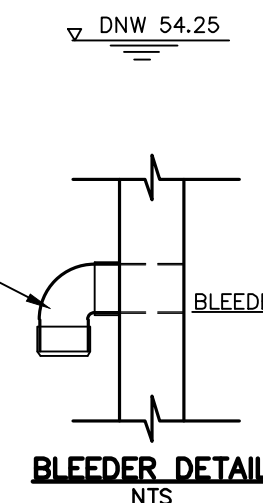
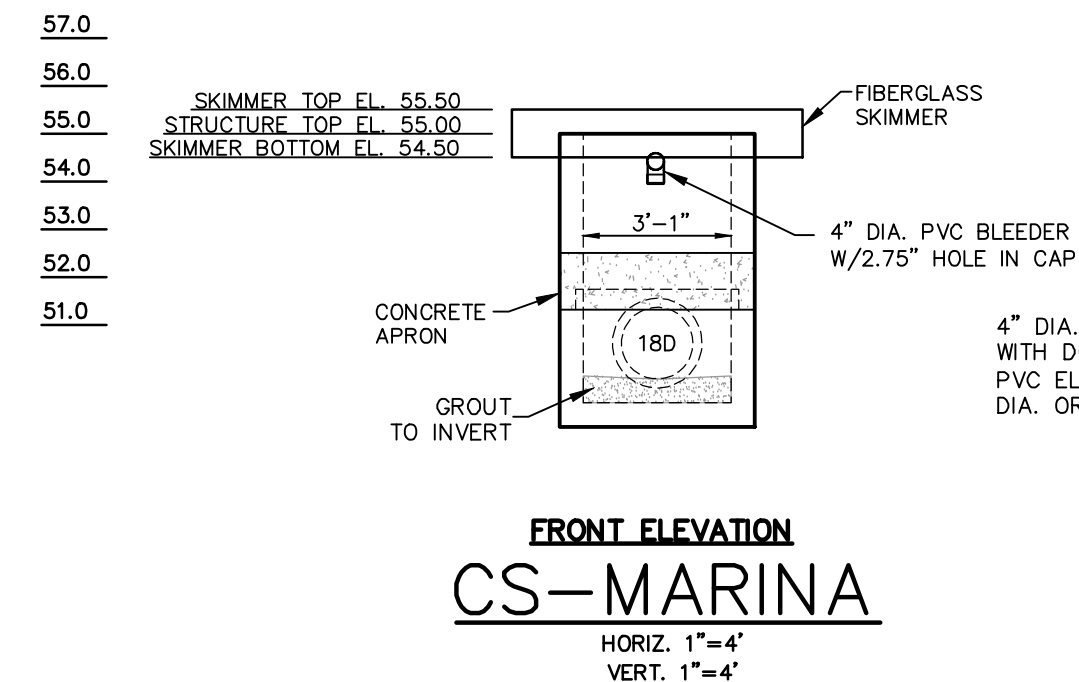
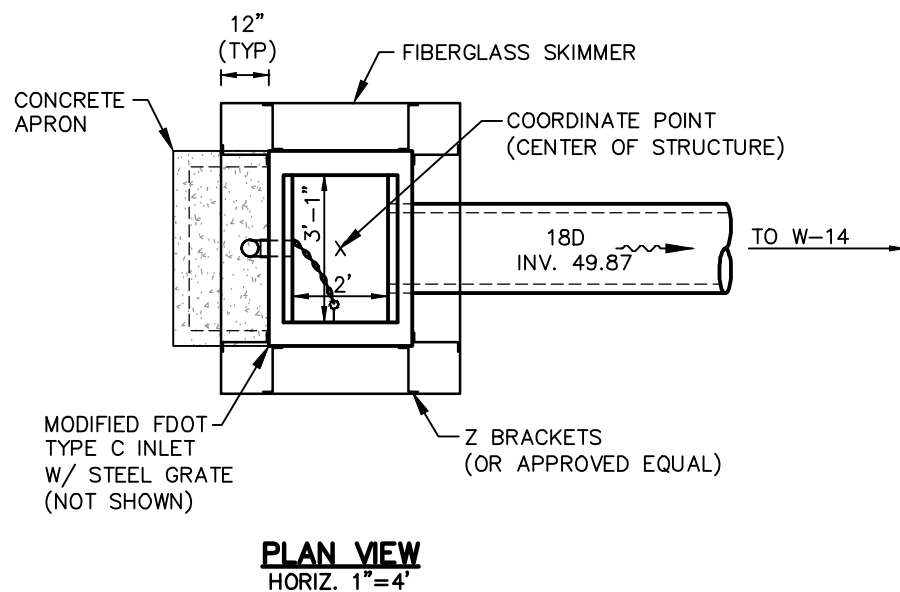
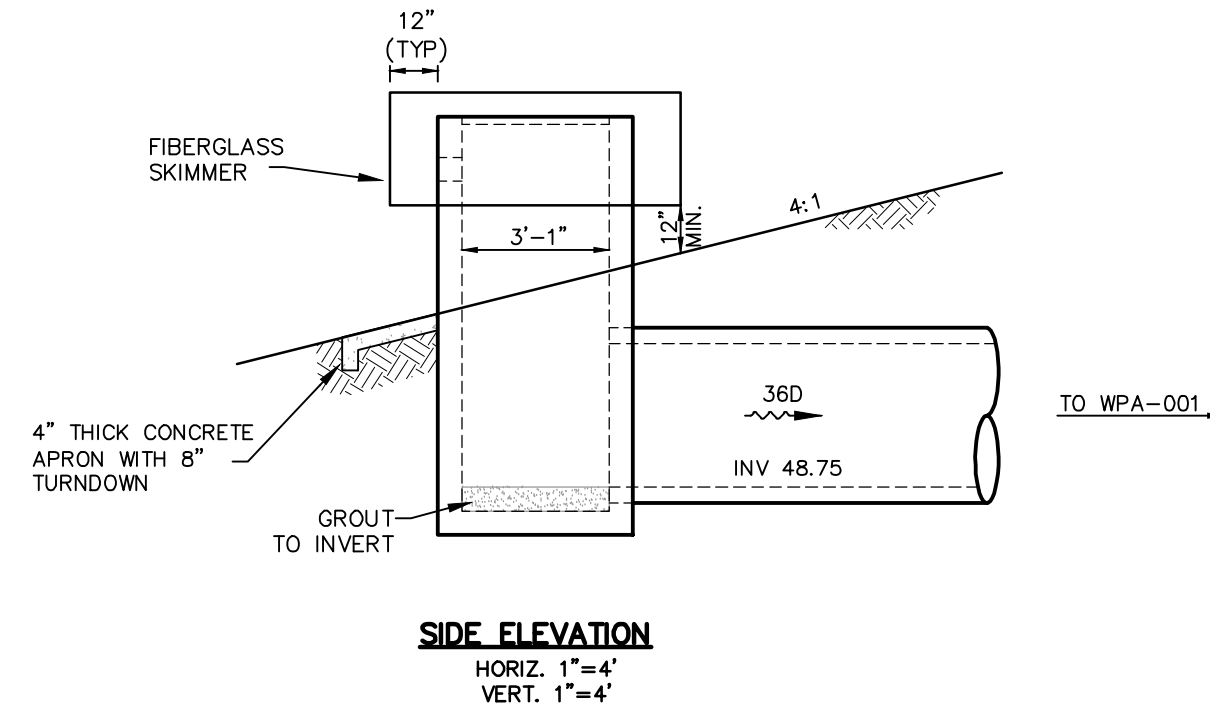
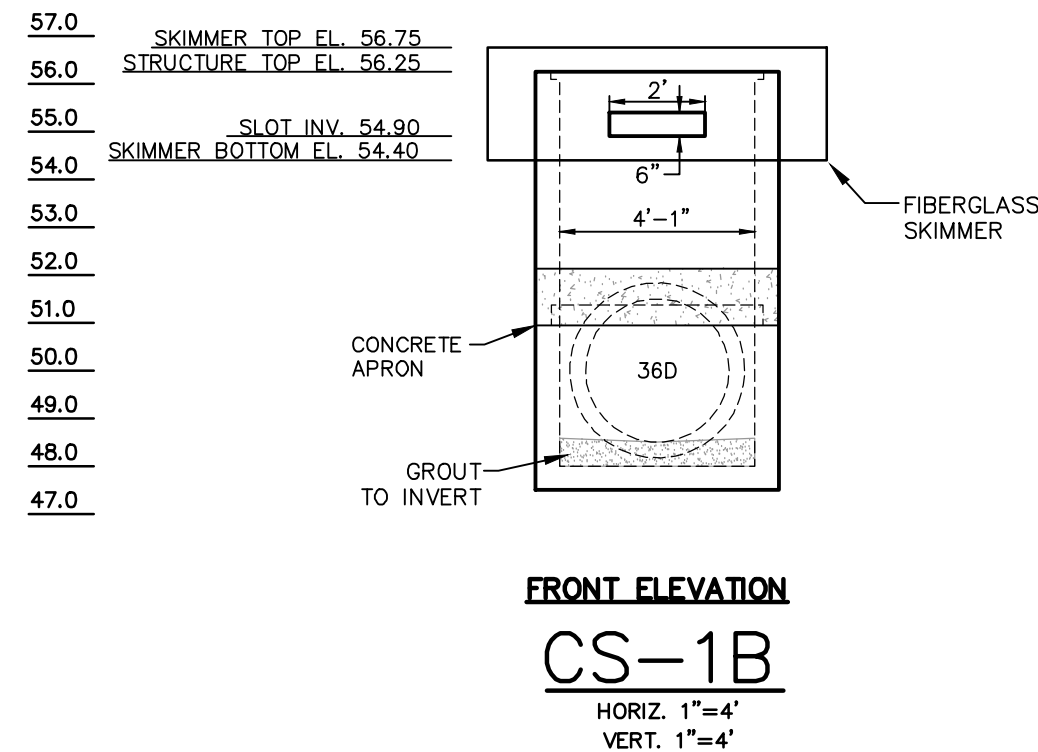
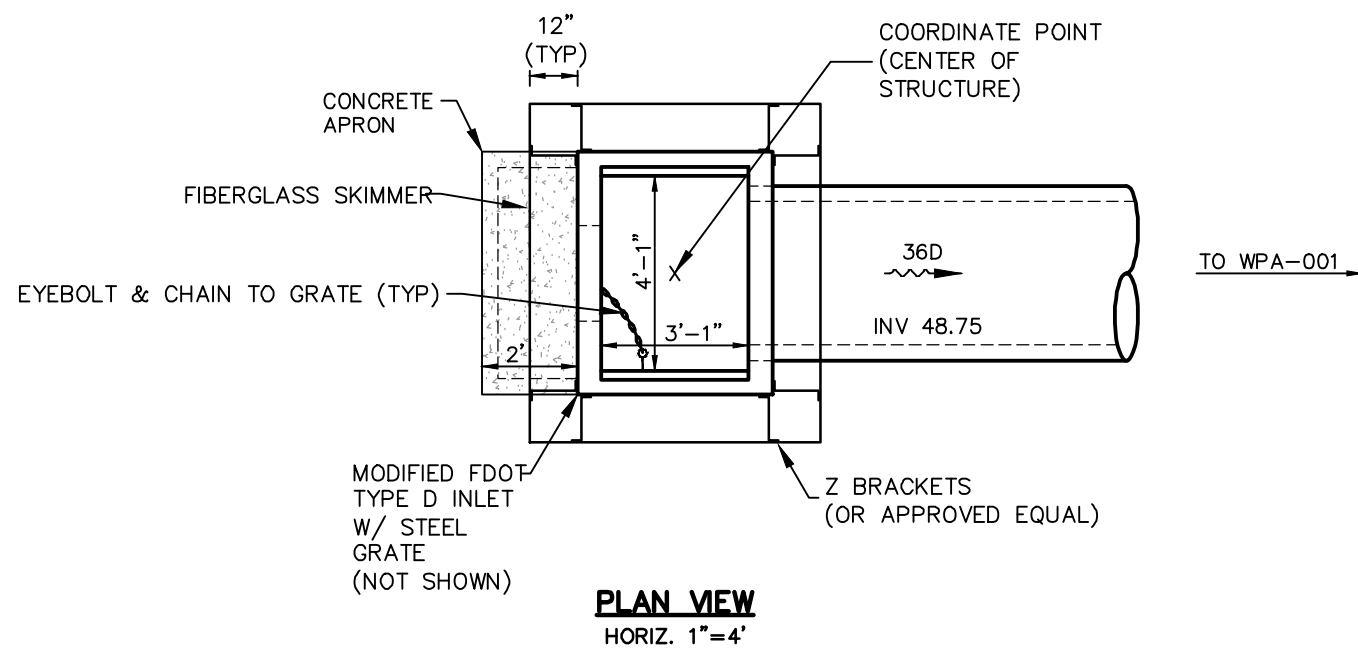
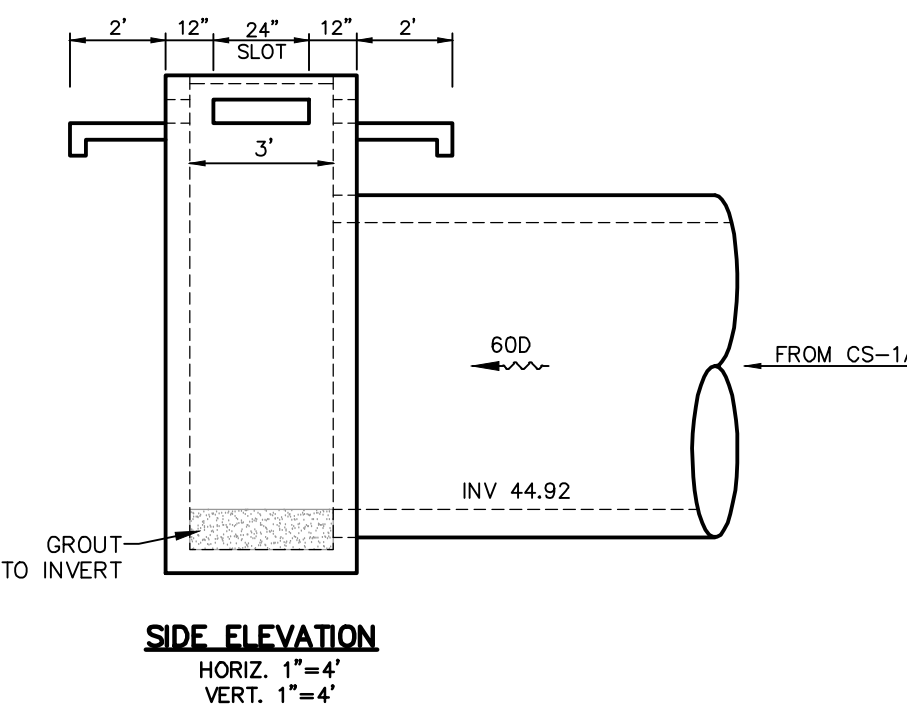
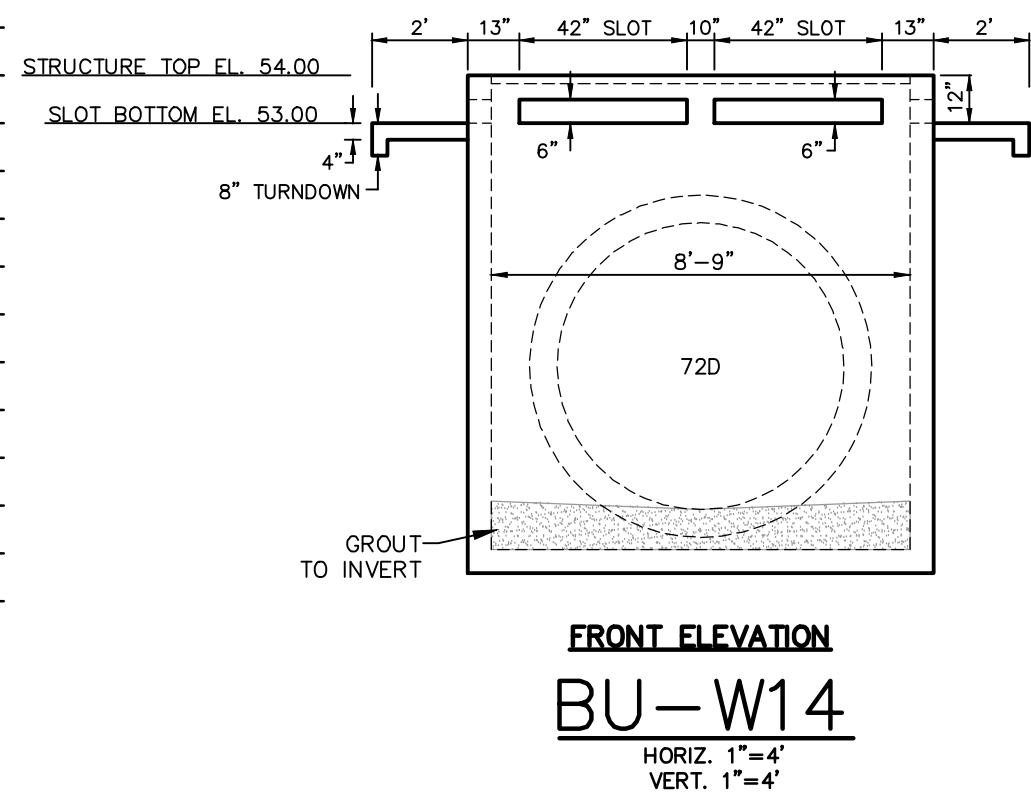
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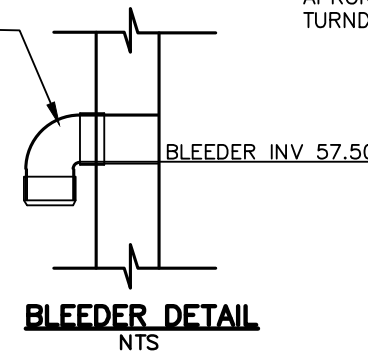
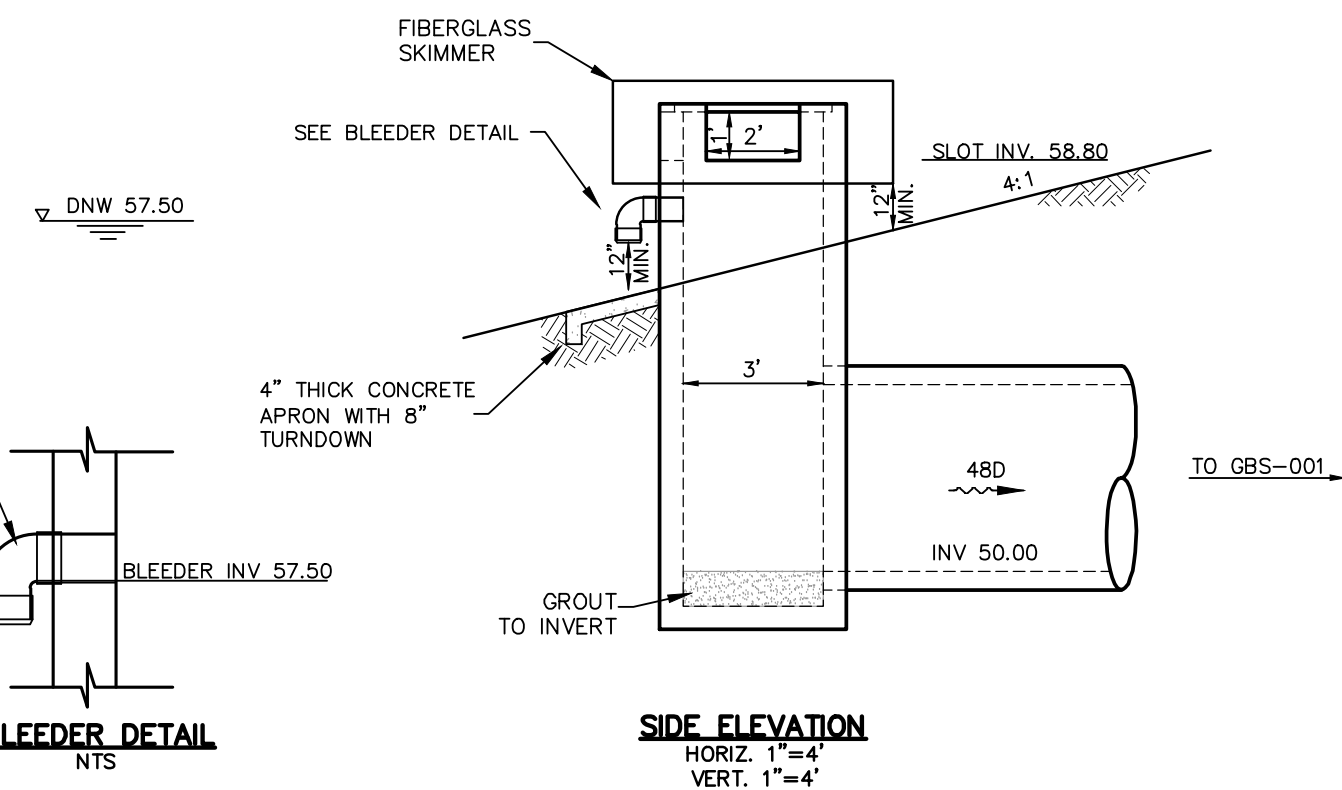
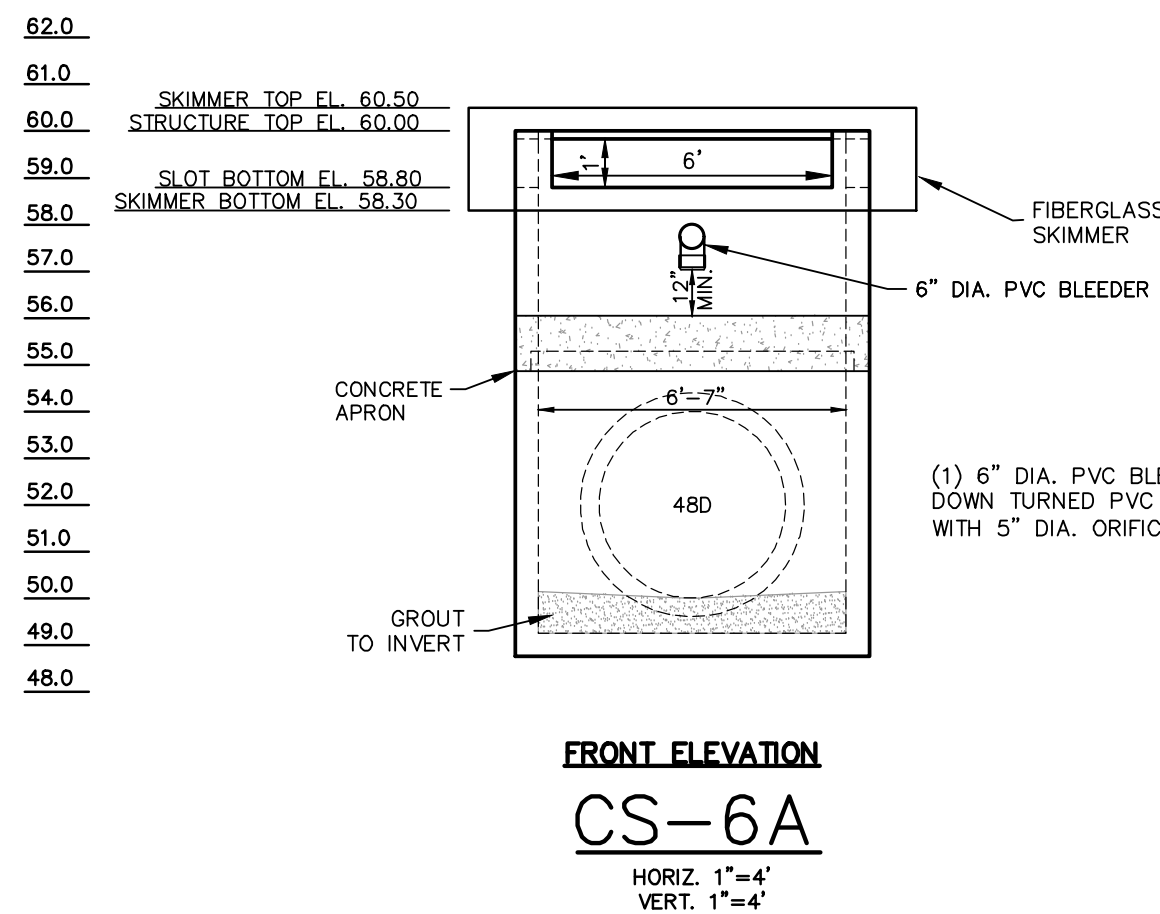
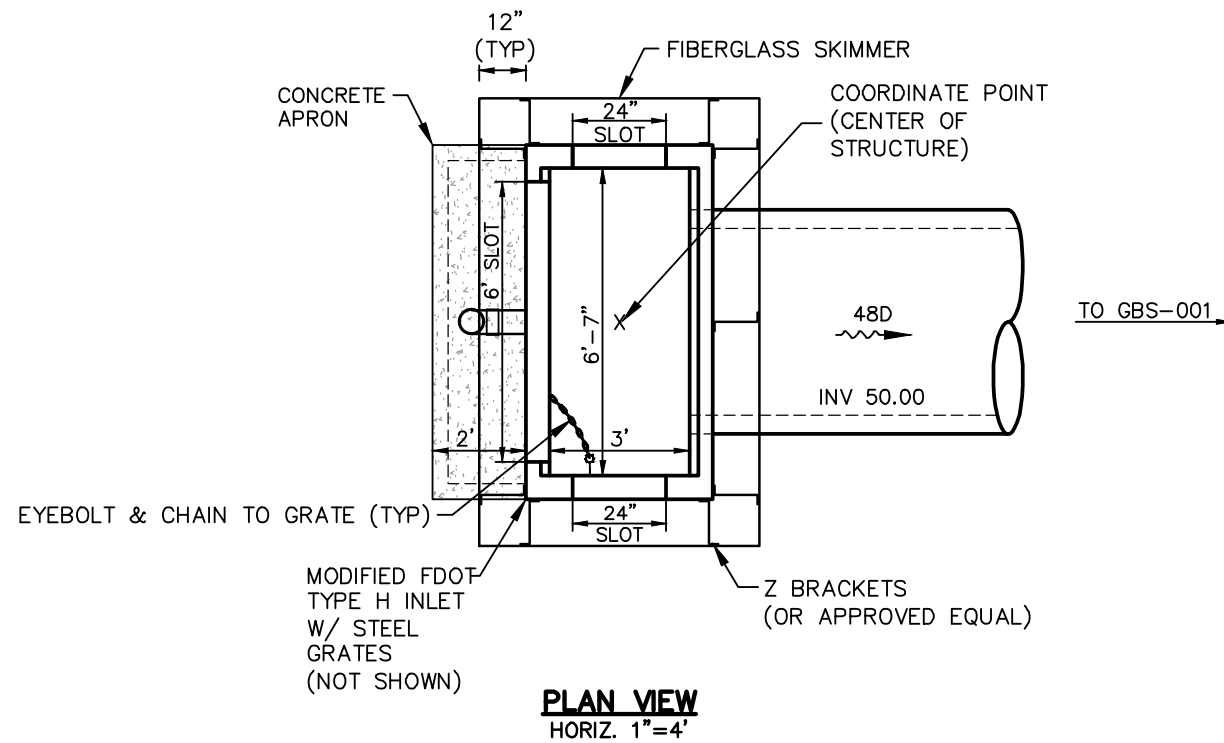
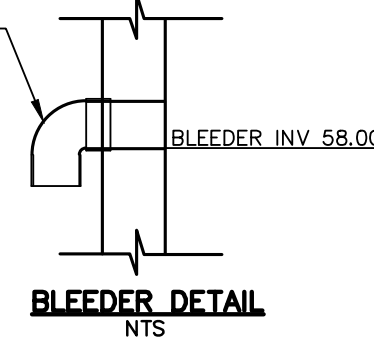
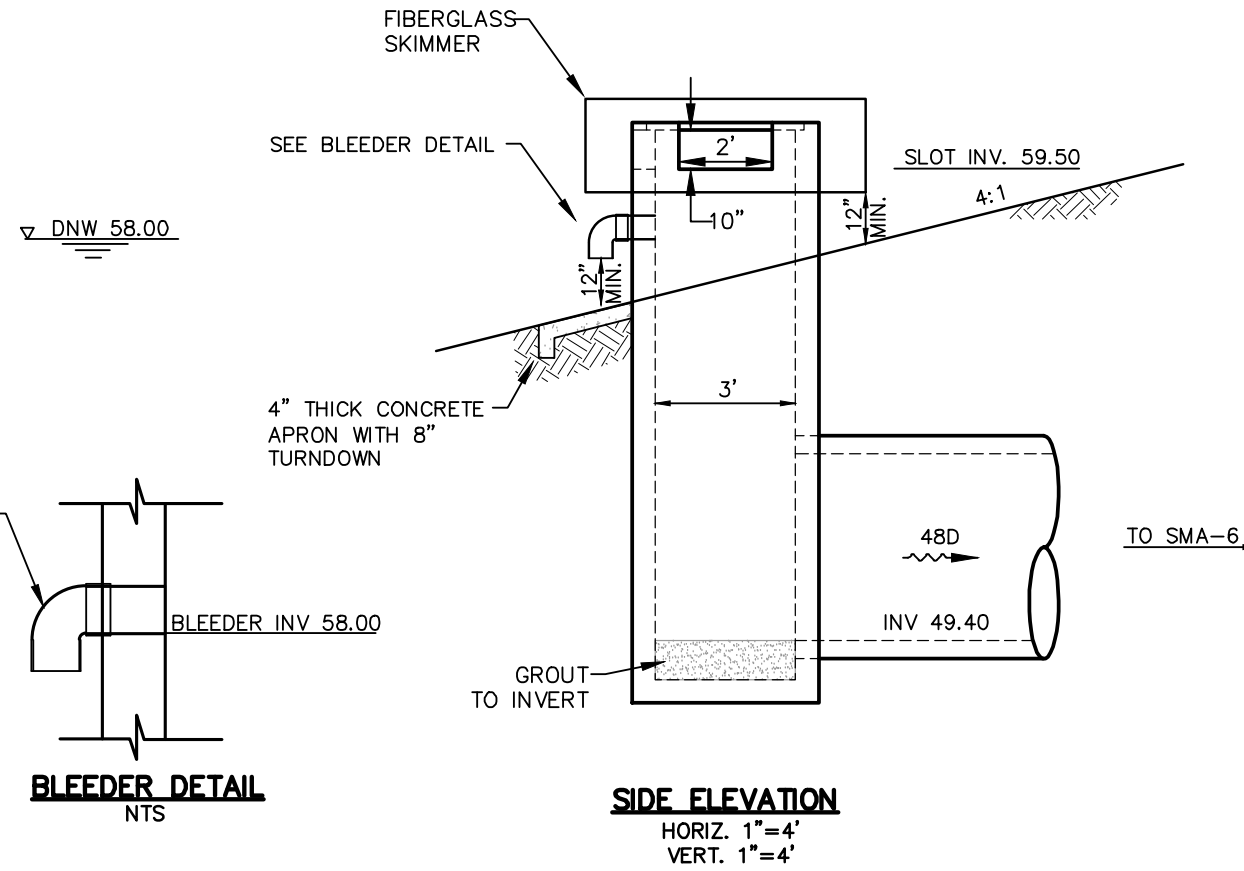
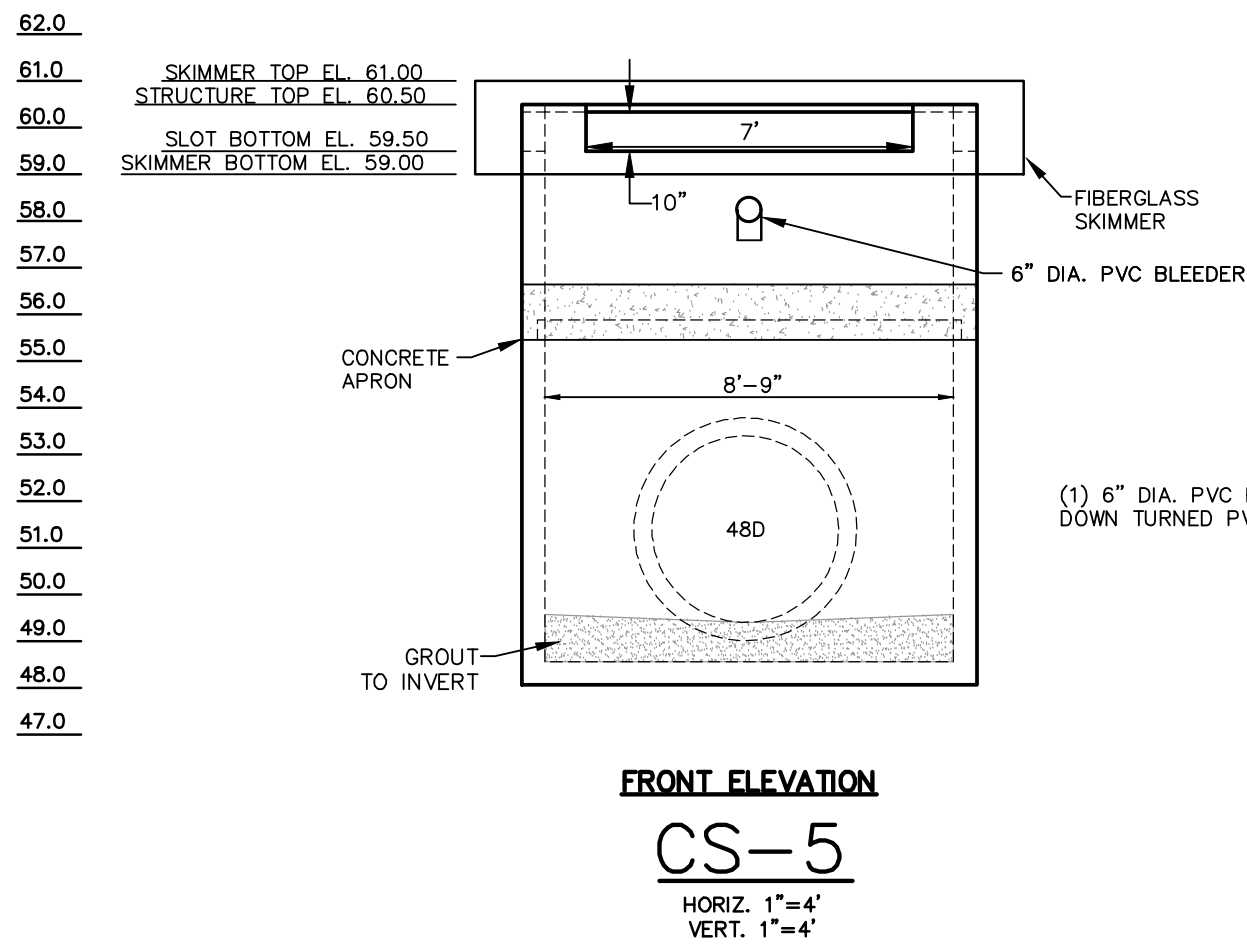
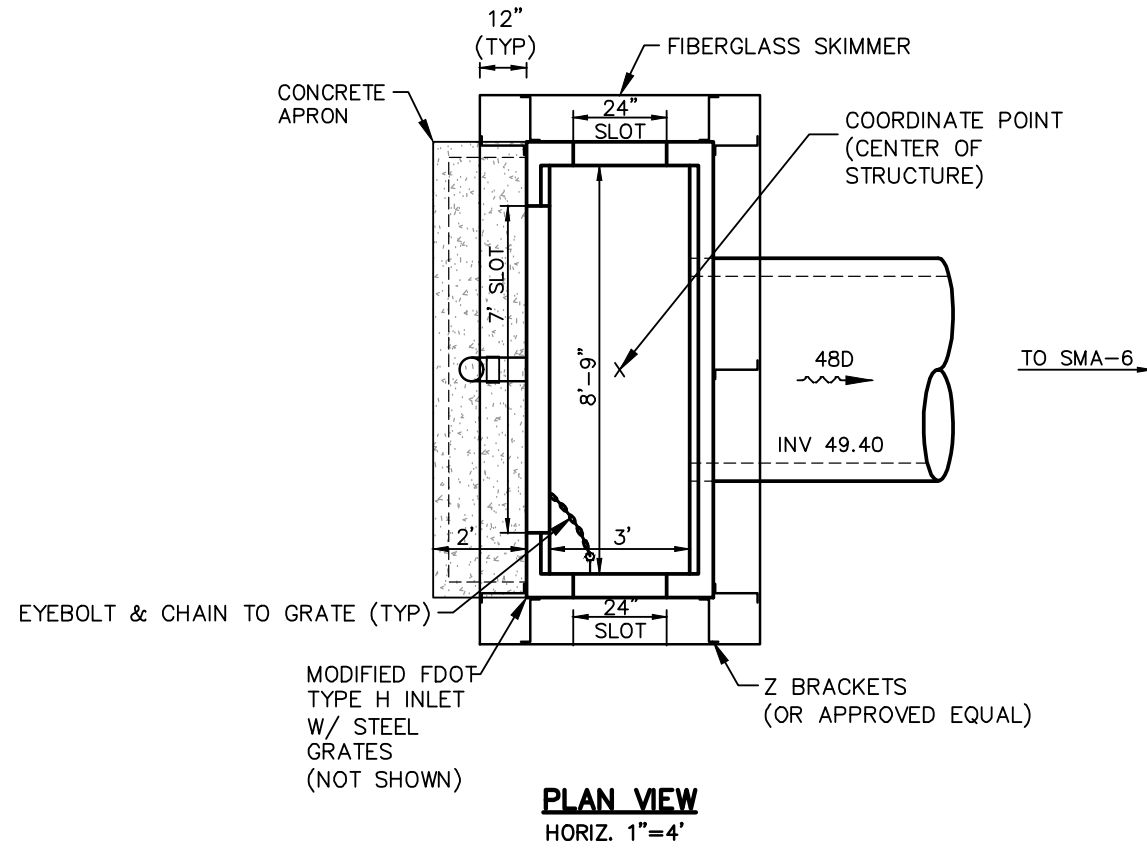
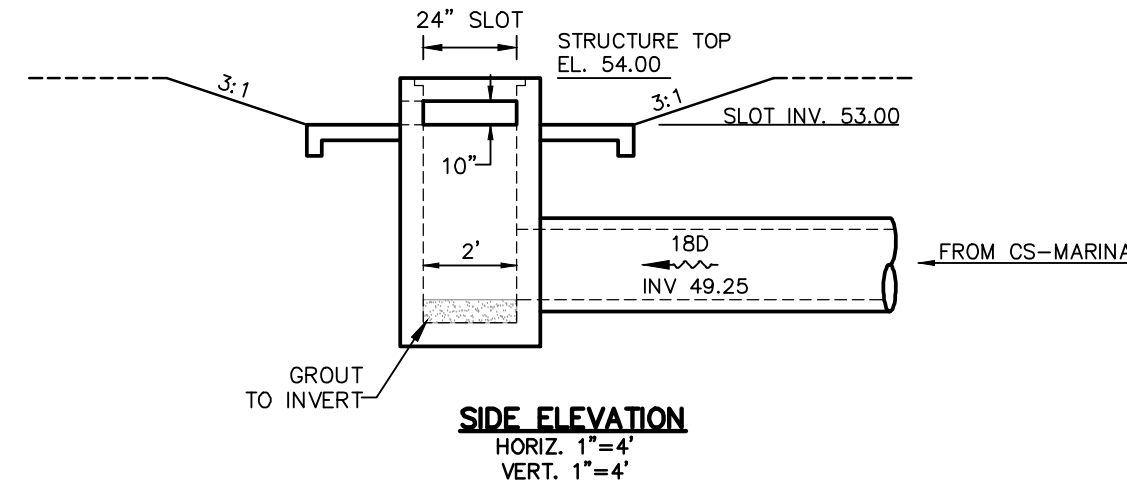
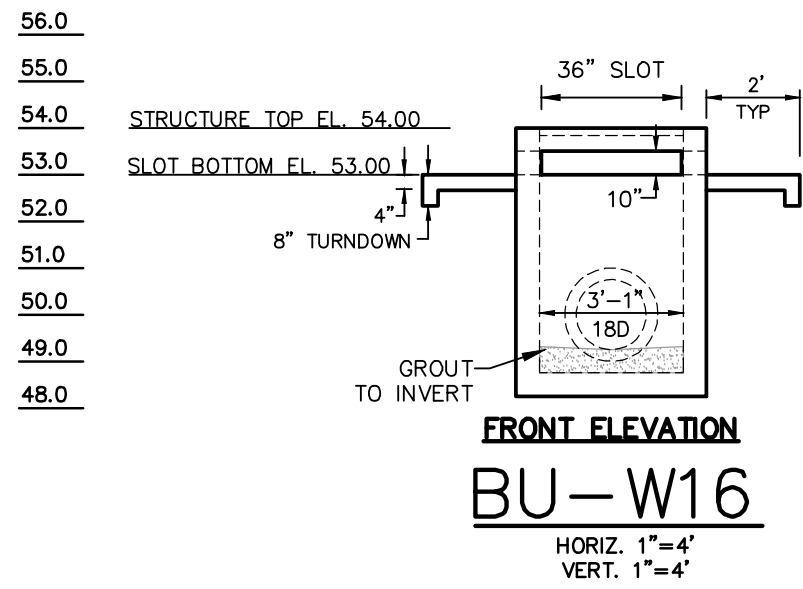
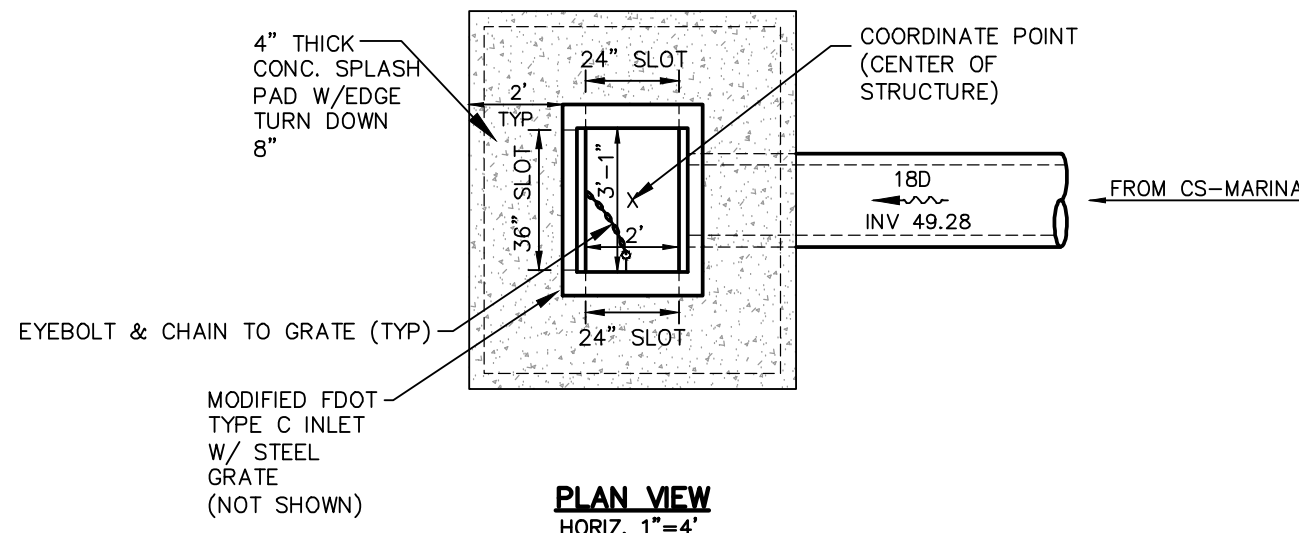


GENERAL NOTES:

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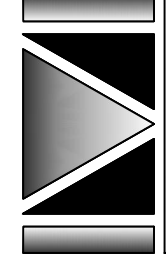
DRAWING 13189-CTLSTR	SHEET C331	25 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA CONTROL STRUCTURE DETAILS	 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	NO.	DATE	REVISIONS	CHK.
2	2/22/21	1	ADDED CS-MARINA DELETED CS-2 & REVISED SLOT ON CS-1A	JCN	JCN	NO.	DATE	REVISIONS	CHK.

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FONTANA
CONCEPTUAL MASS GRADING PLANS
OSCEOLA COUNTY, FLORIDA
CONTROL STRUCTURE DETAILS



DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

JAMES C. NUGENT
FLORIDA P.E. No. 57553
DATE: _____

DRAWN BY	DSW	DESIGNED BY	DSW	CHECKED BY	JCN	DATE	5/2/18	SCALE	AS SHOWN	JOB NUMBER	13189
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NO.	1	2
DATE	11/25/18	2/22/21
REVISIONS	DELETED BU-W10 & CS-W10 & REVISED CS-5	ADDED BU-W16

CHK

26 OF 33

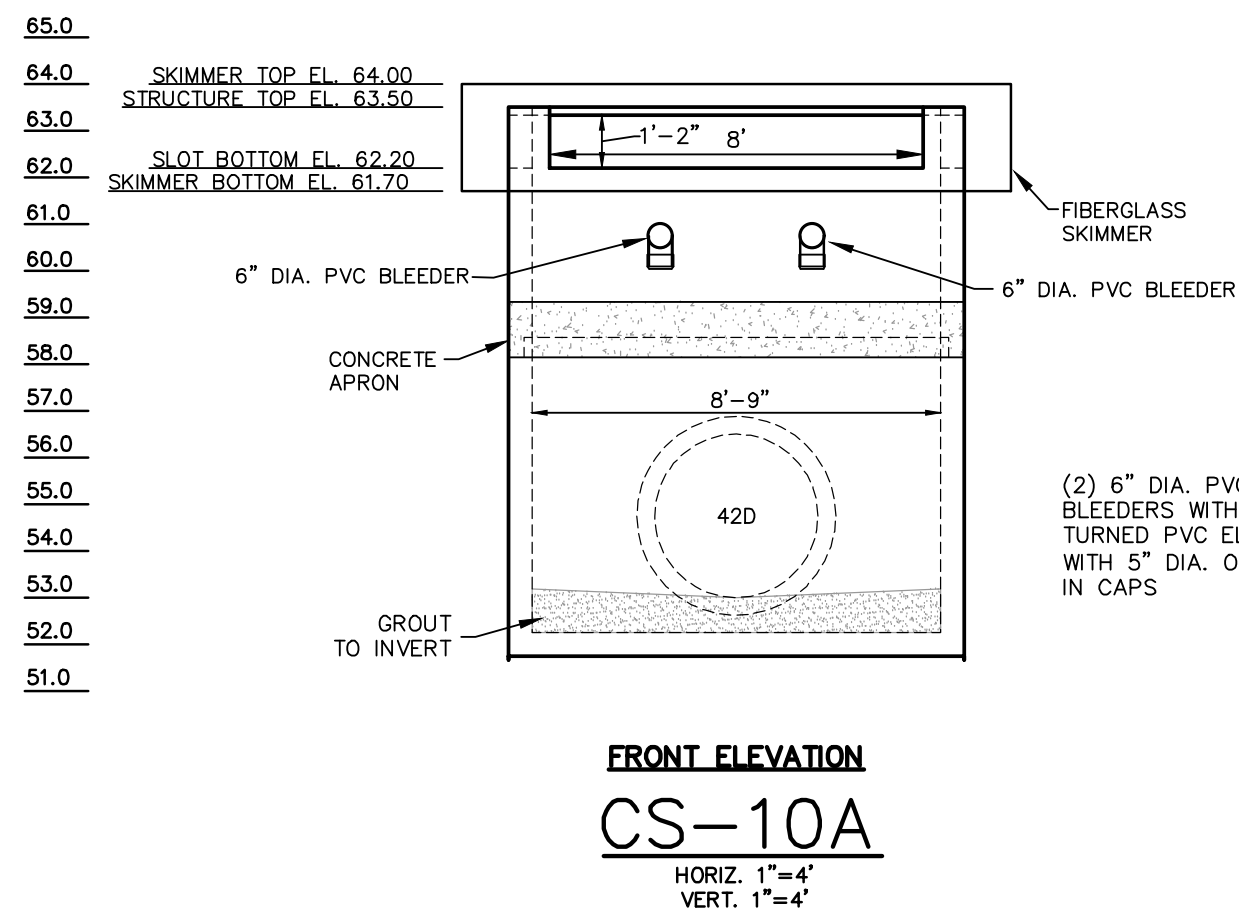
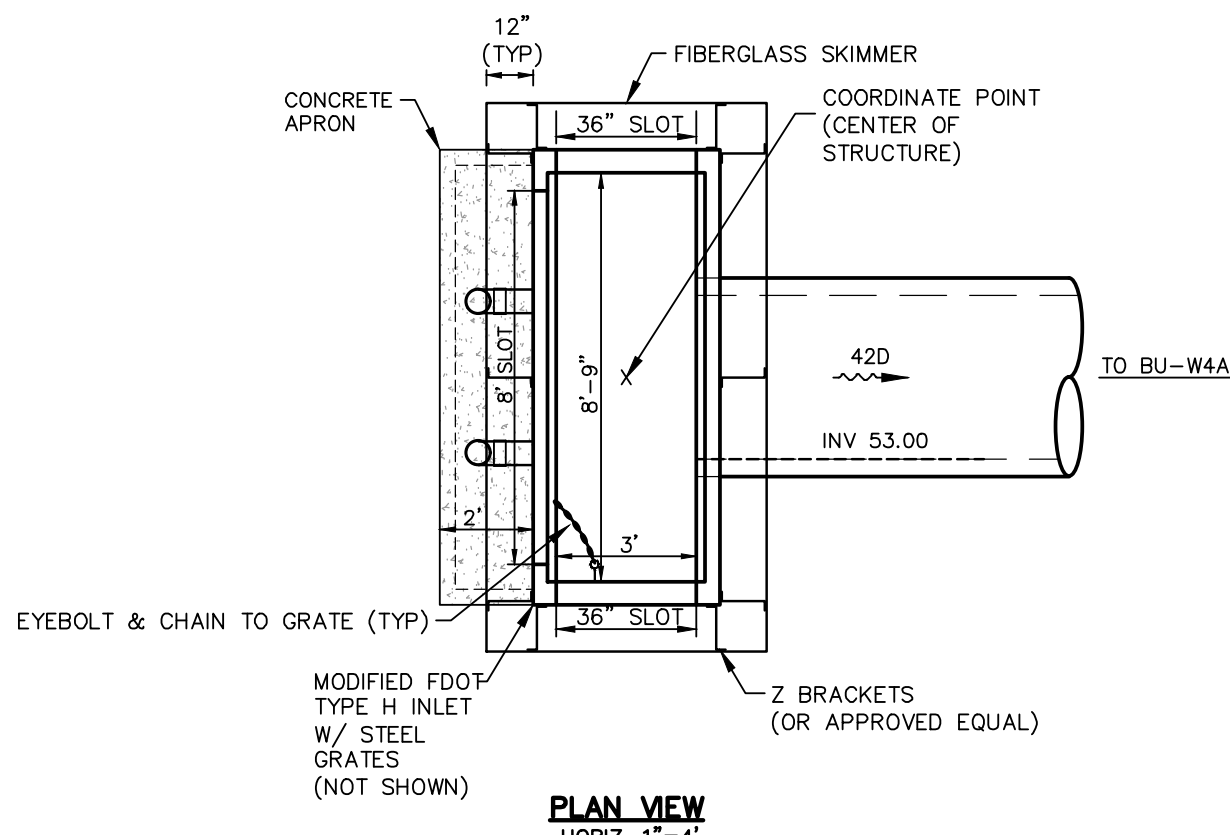
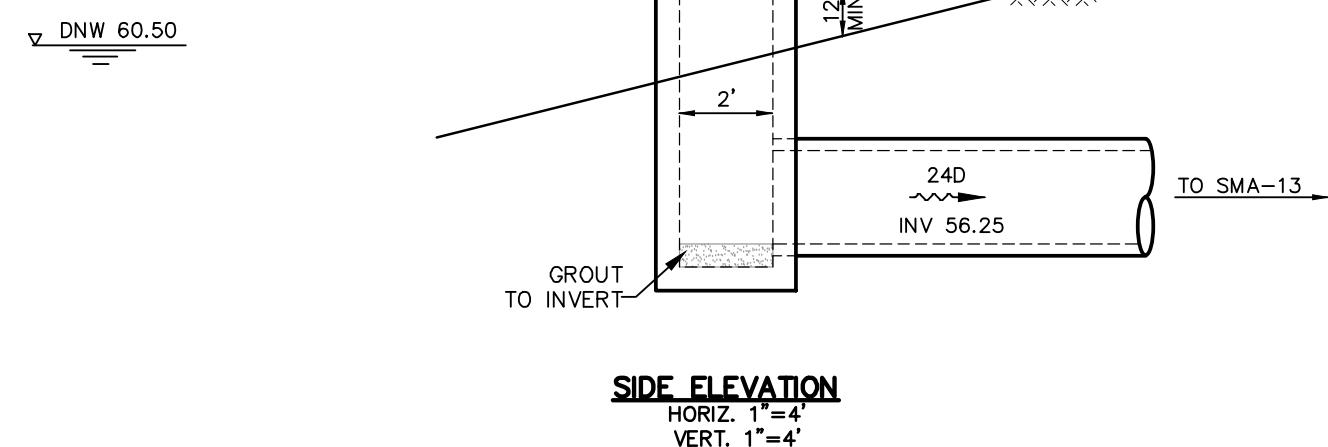
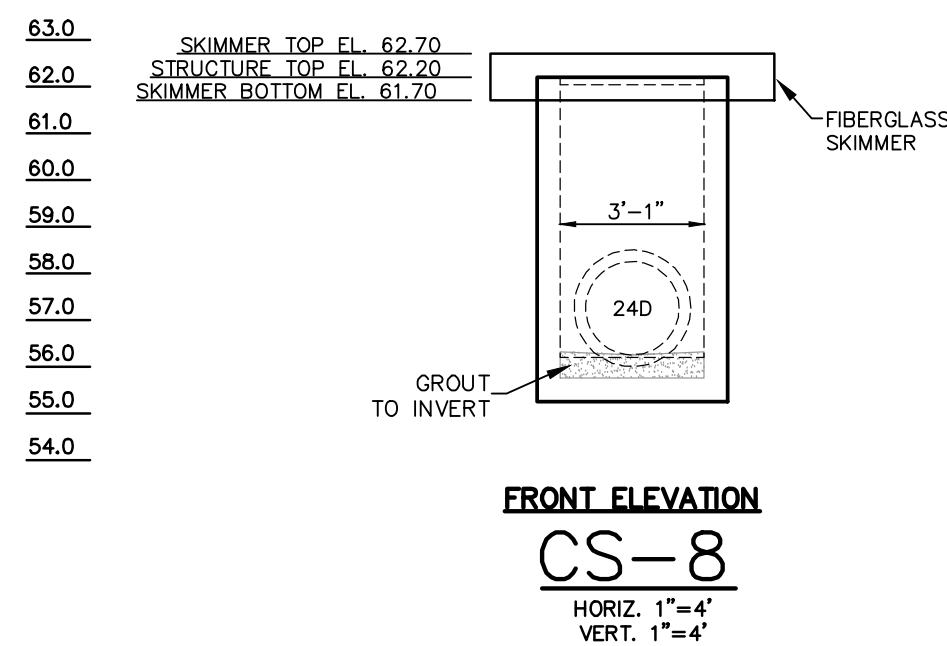
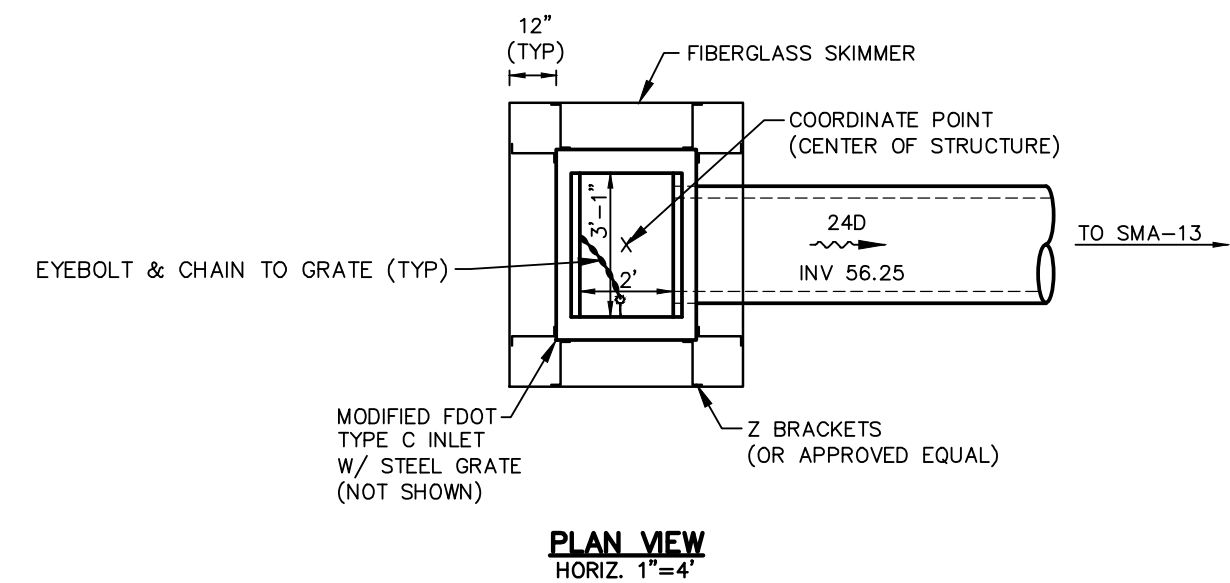
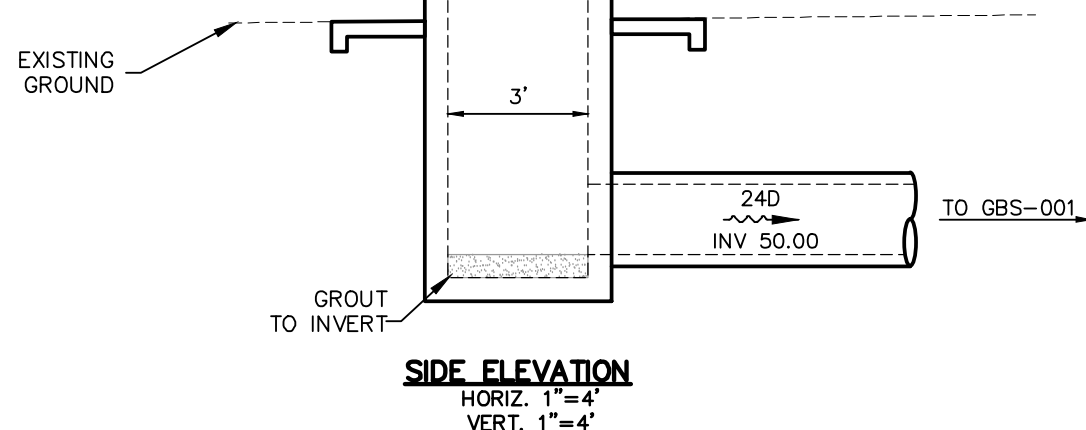
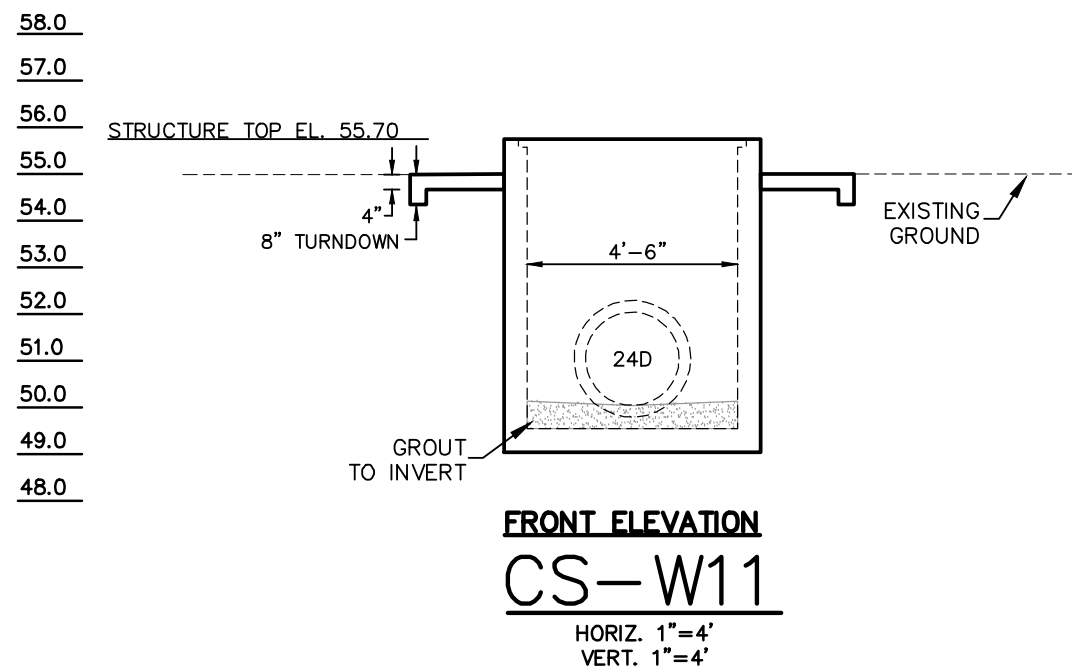
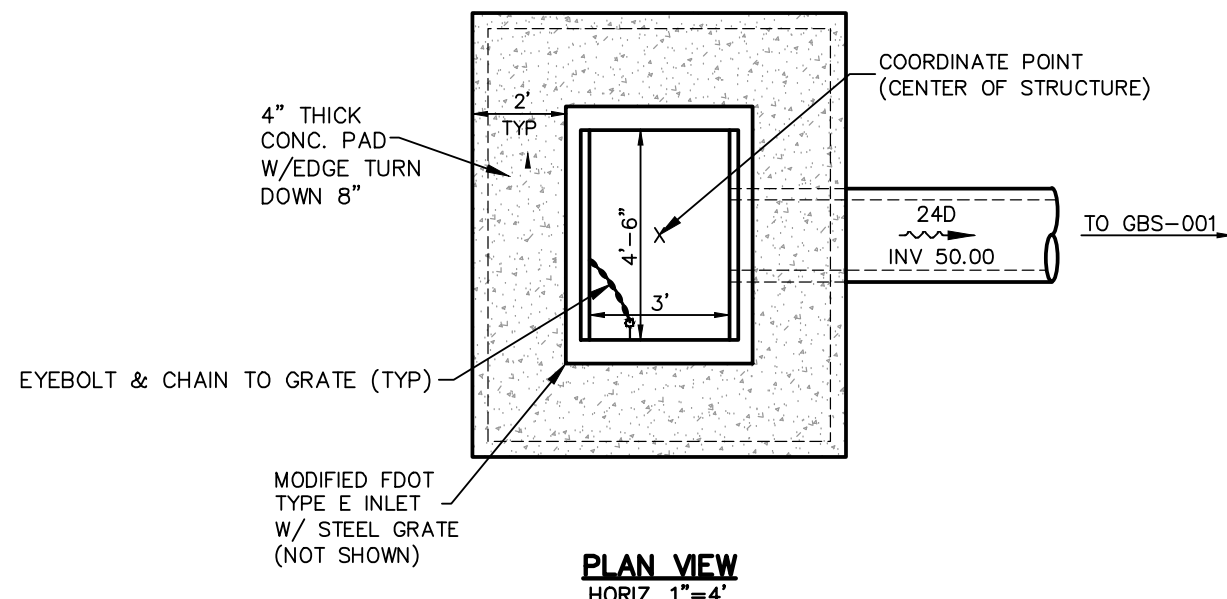
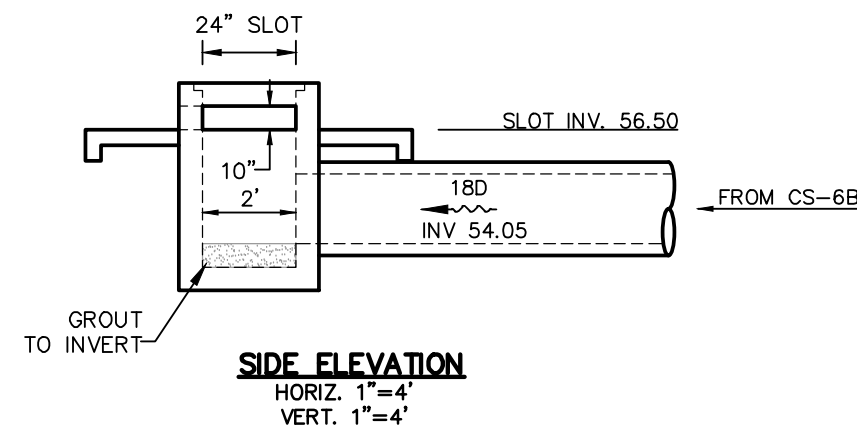
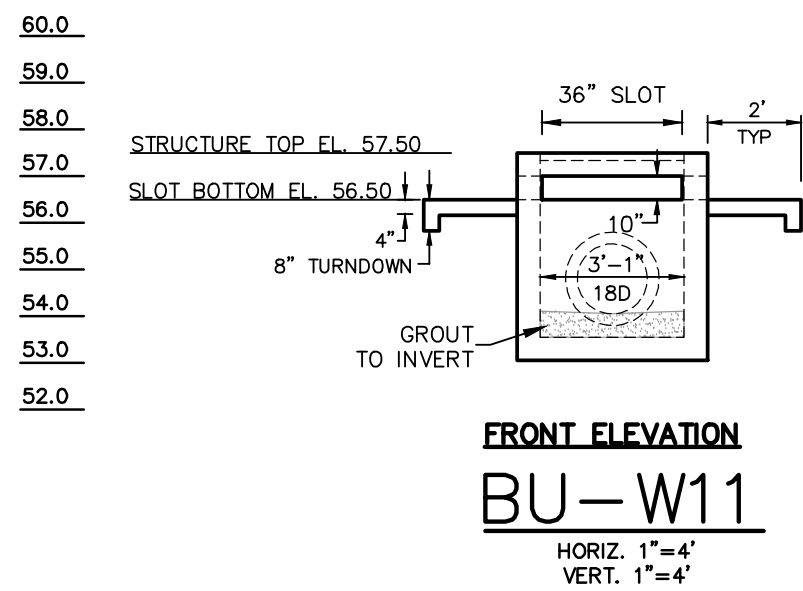
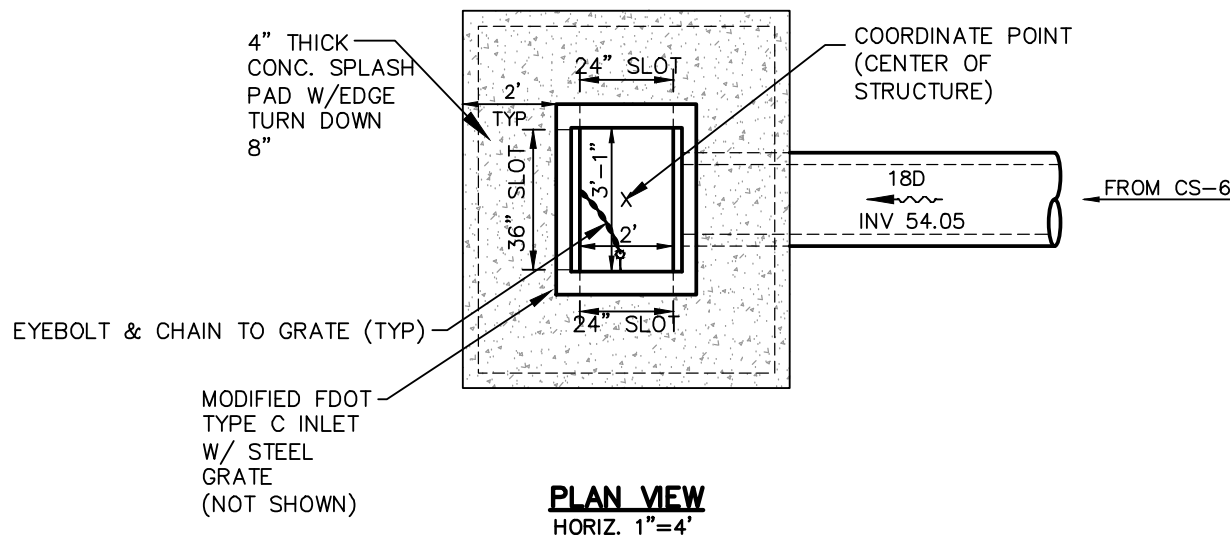
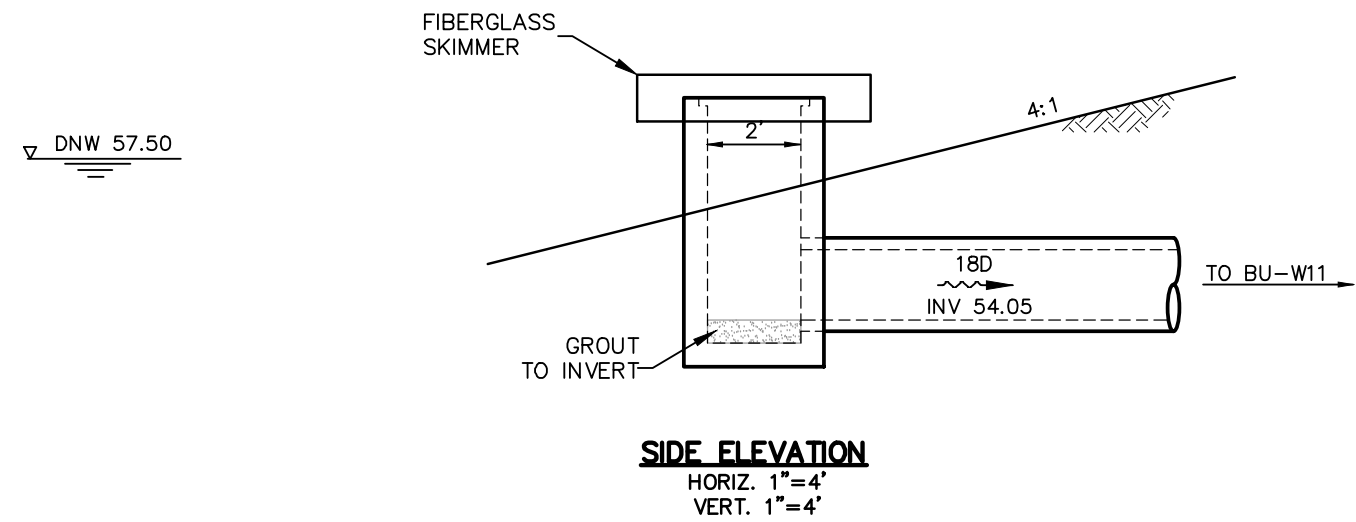
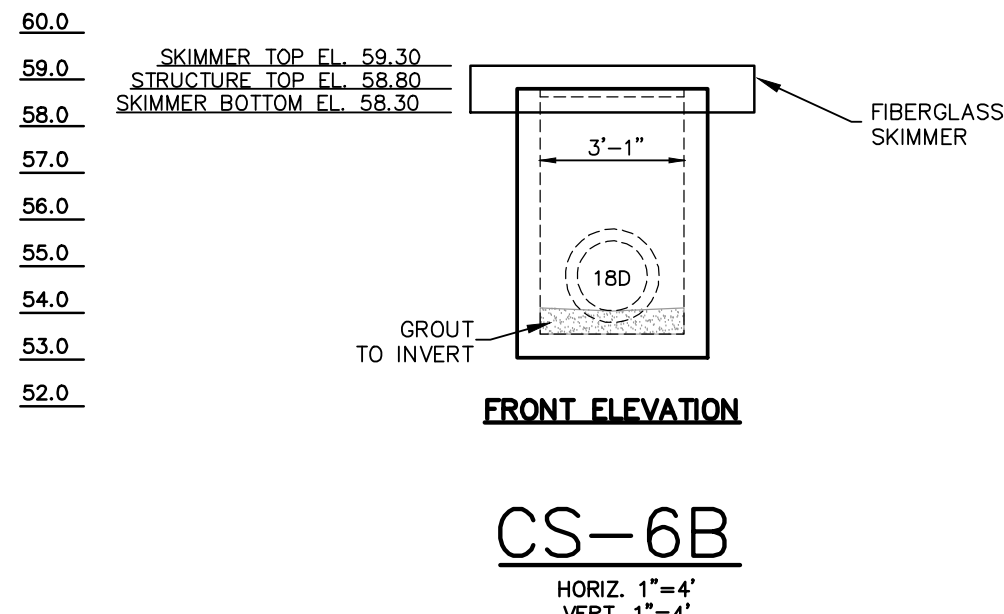
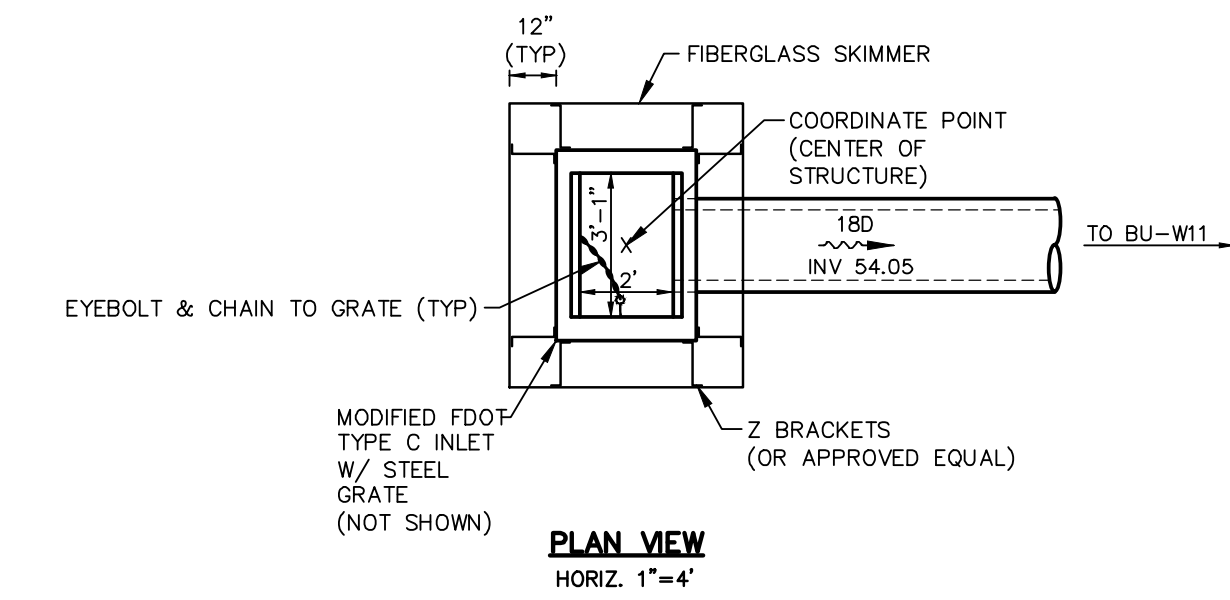
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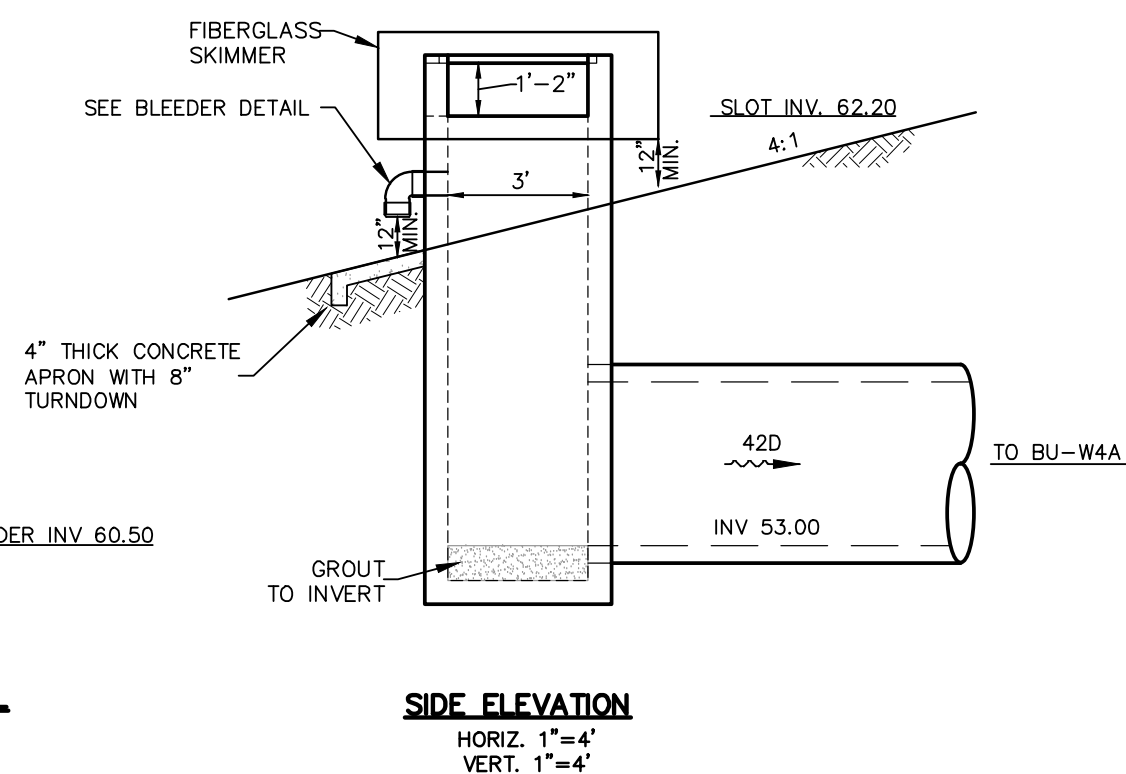
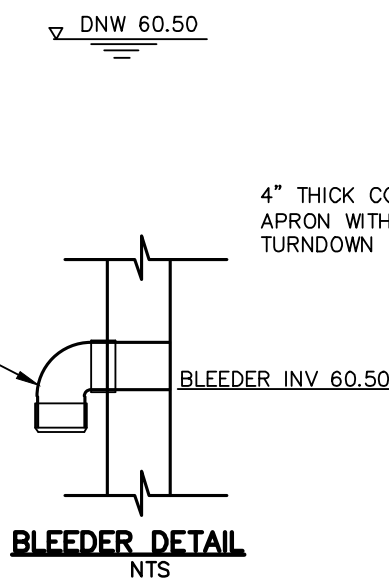
DRAWING

13189-CTLSTR

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(2) 6" DIA. PVC BLEEDERS WITH DOWN TURNED PVC ELBOWS WITH 5" DIA. ORIFICES IN CAPS



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FONTANA
CONCEPTUAL MASS GRADING PLANS
OSCEOLA COUNTY, FLORIDA
CONTROL STRUCTURE DETAILS

DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68



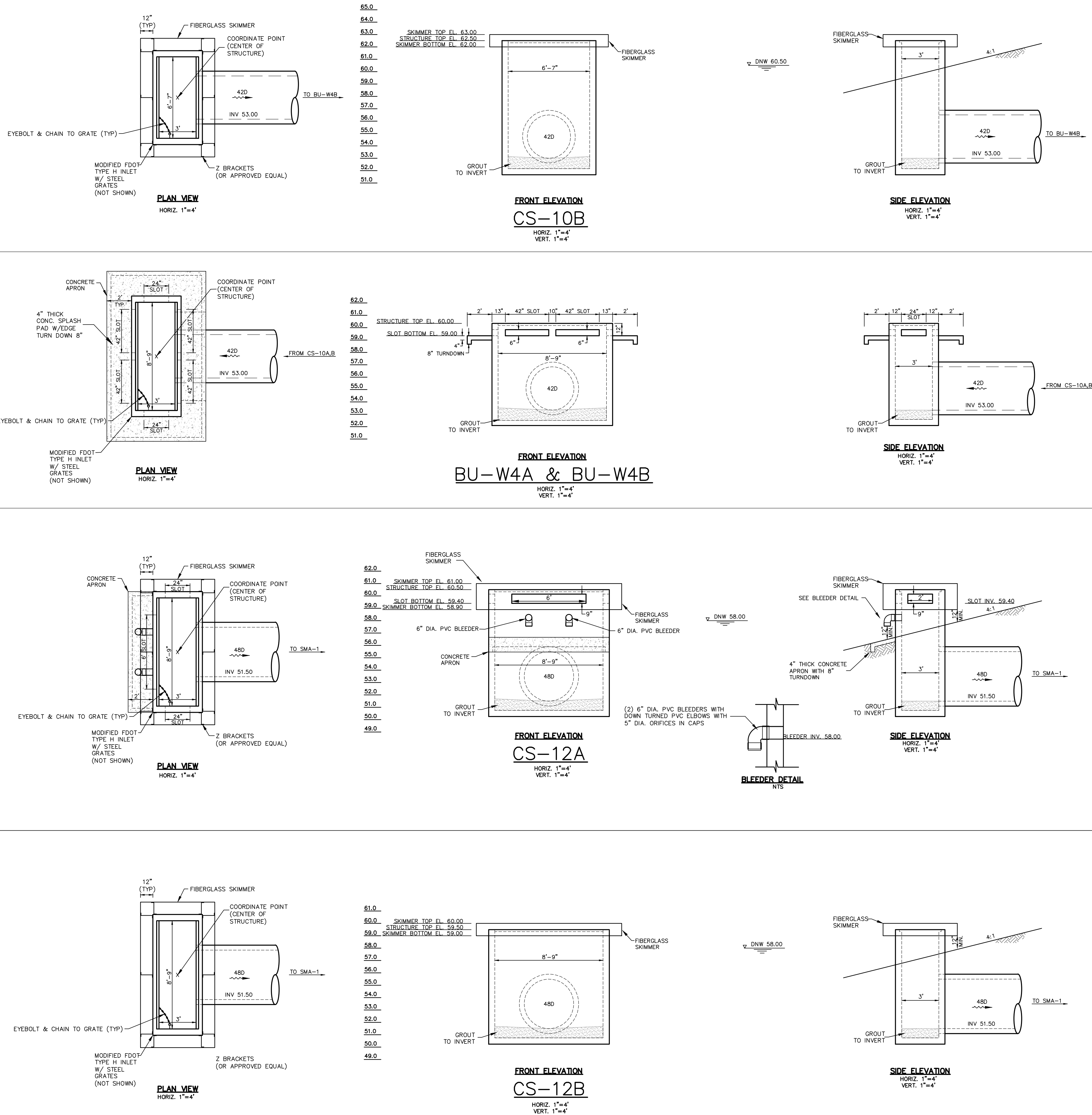
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DESIGNED BY DSW
CHECKED BY JCN
DATE 5/2/18
SCALE AS SHOWN
JOB NUMBER 13189

JAMES C. NUGENT
FLORIDA P.E. No. 57553
DATE: _____

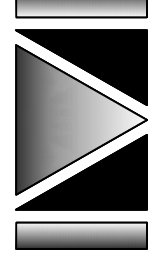
NO.	DATE	REVISIONS	CHK.

DRAWING 13189-CTLSTR
SHEET C333
27 OF 33

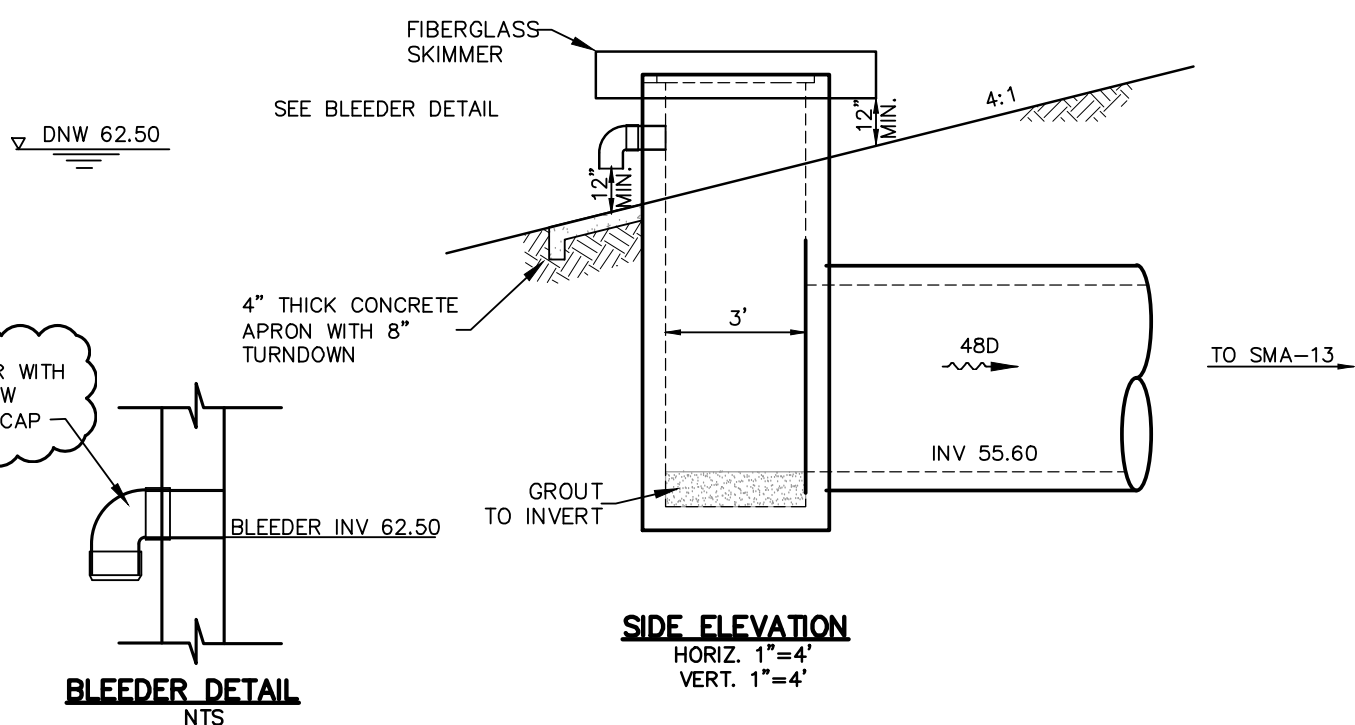
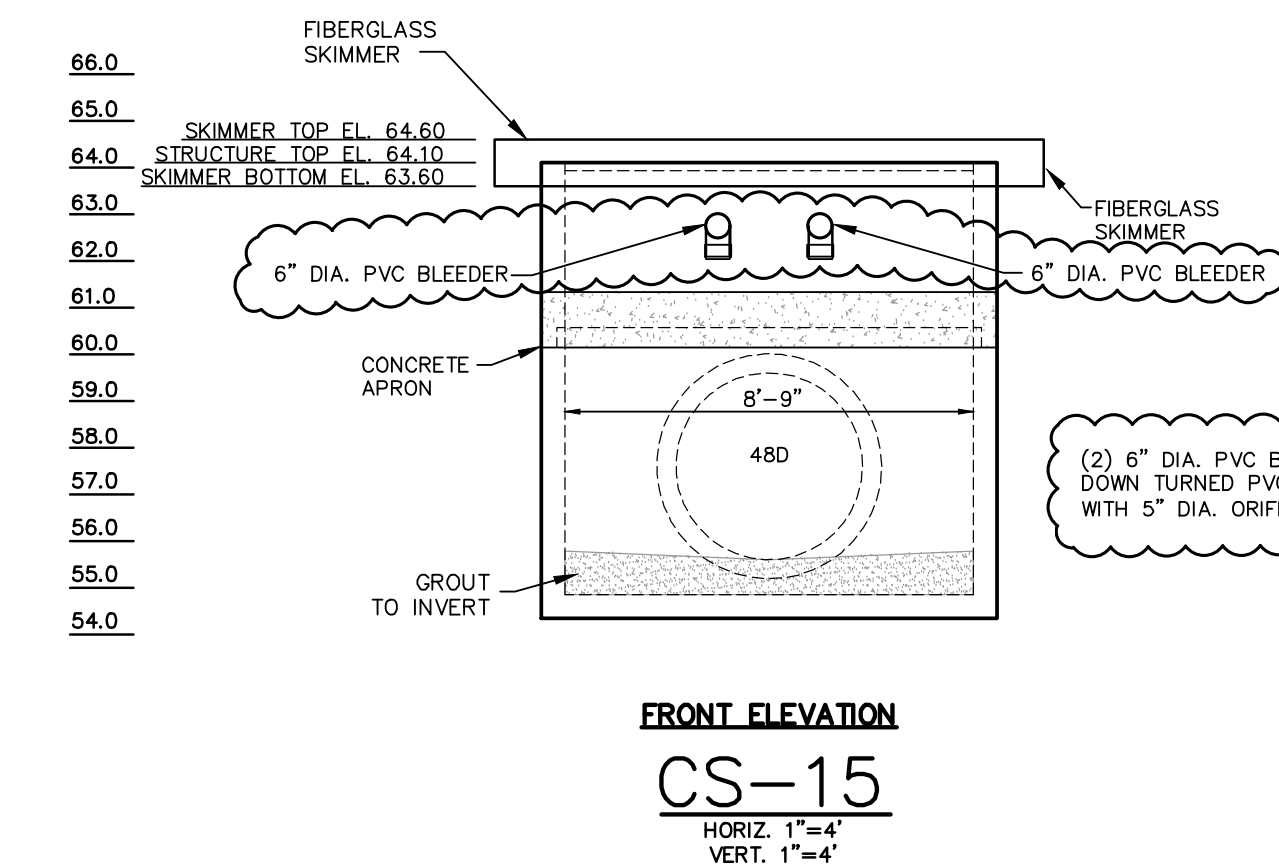
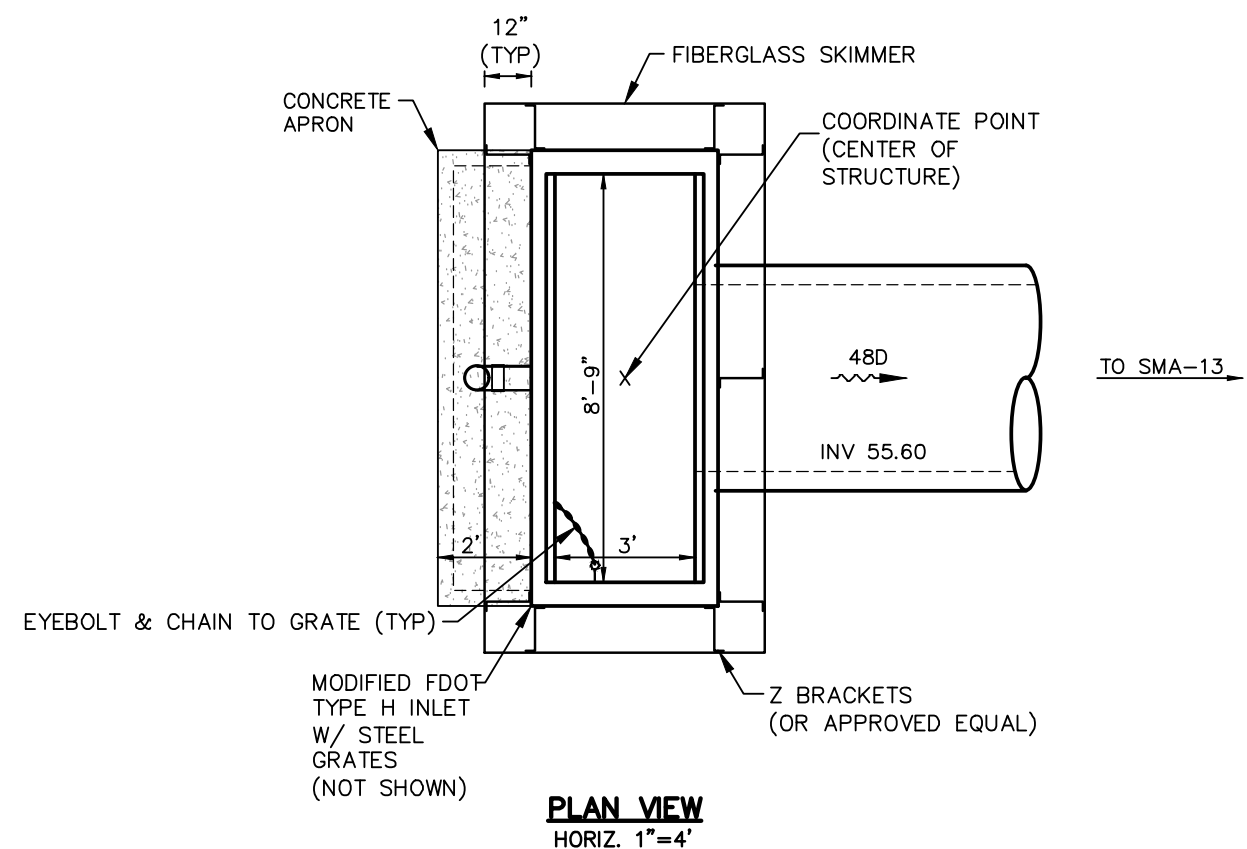
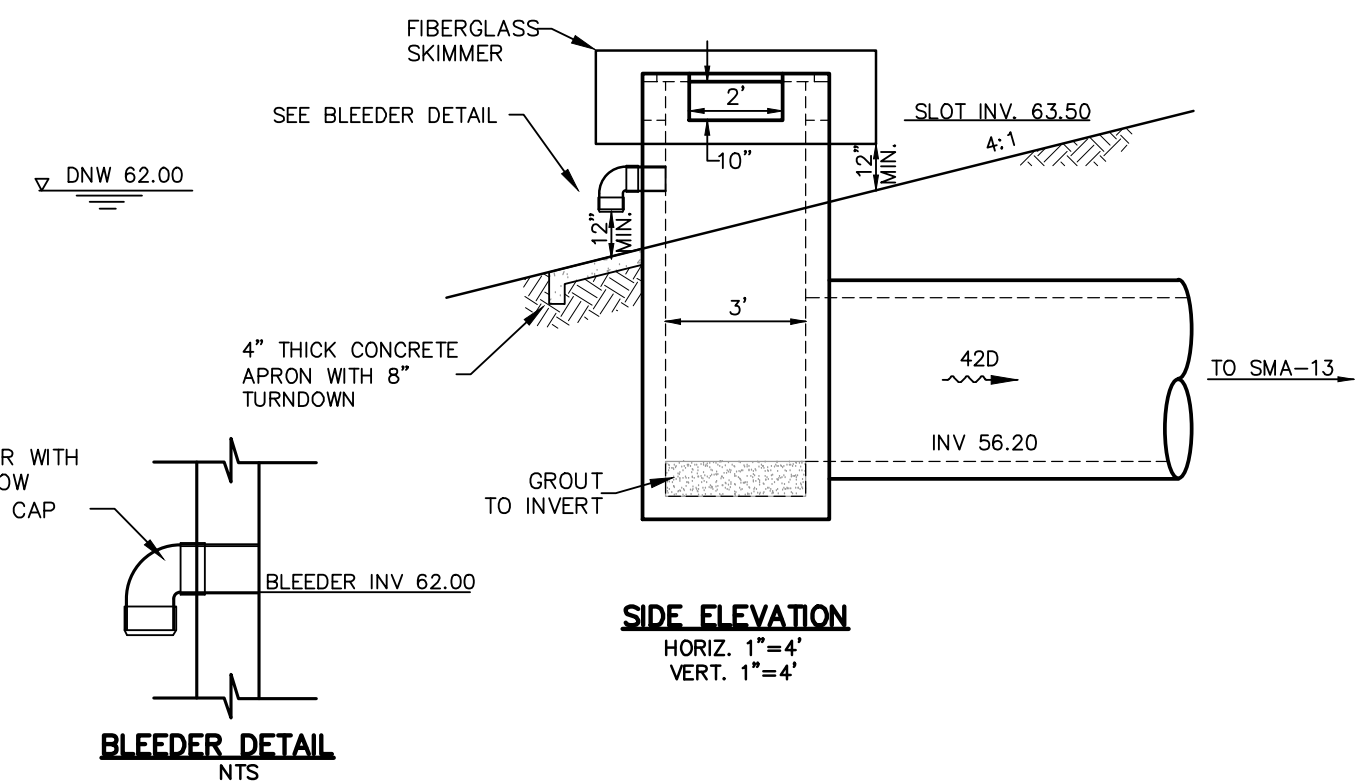
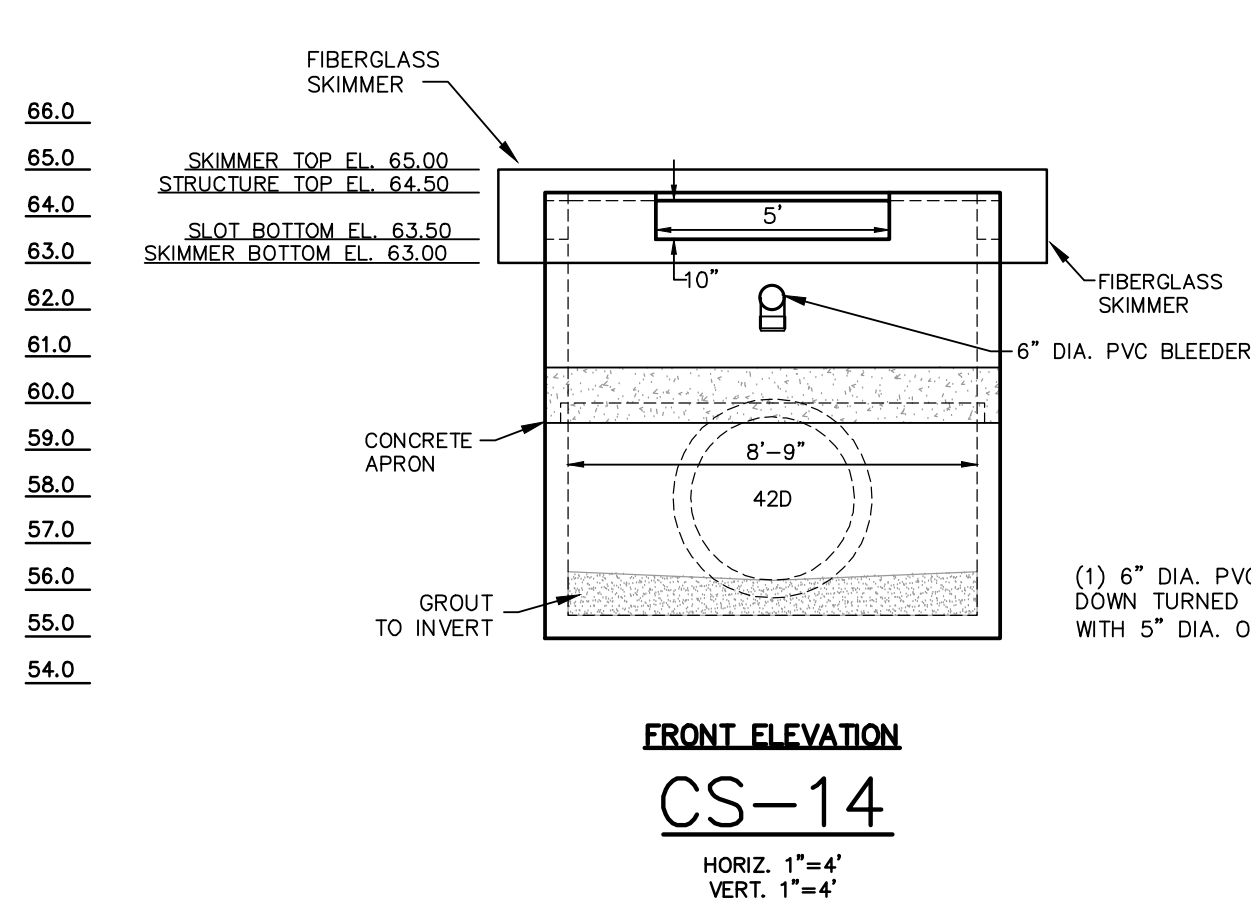
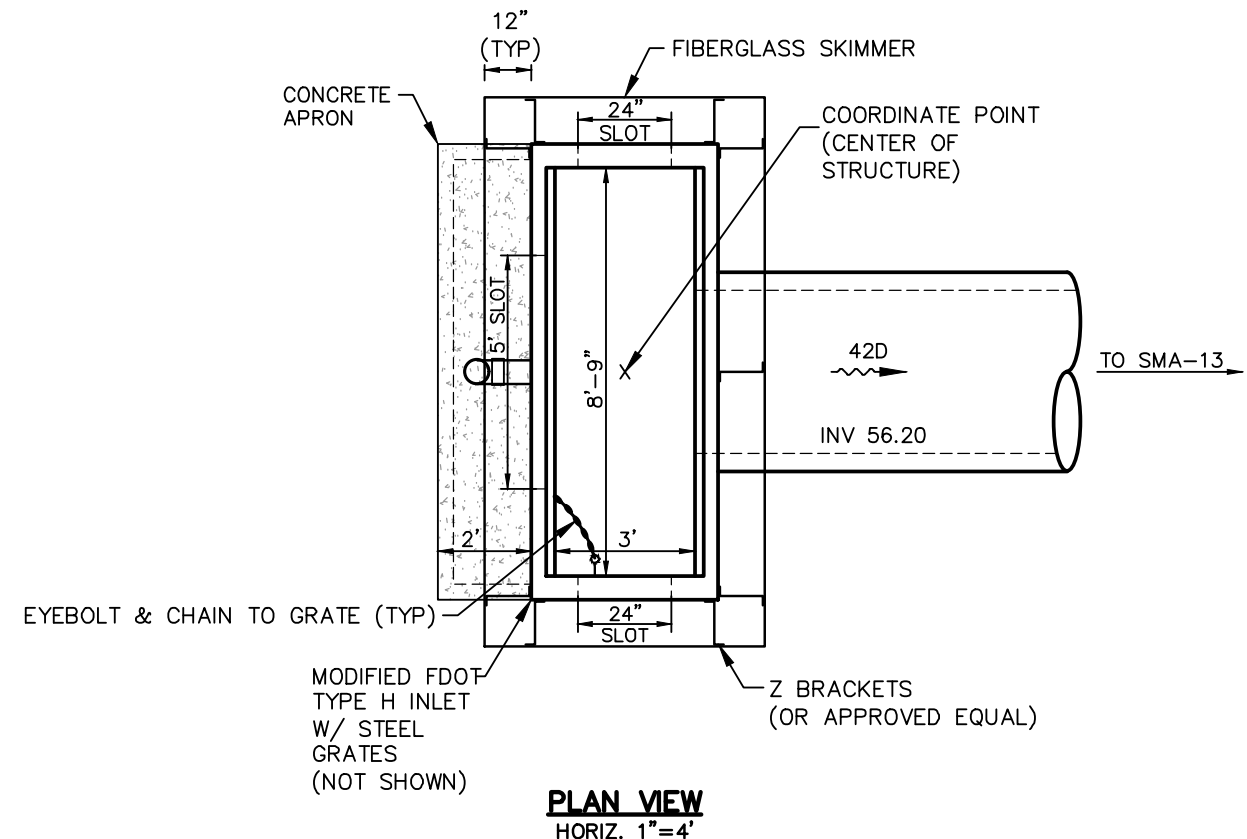
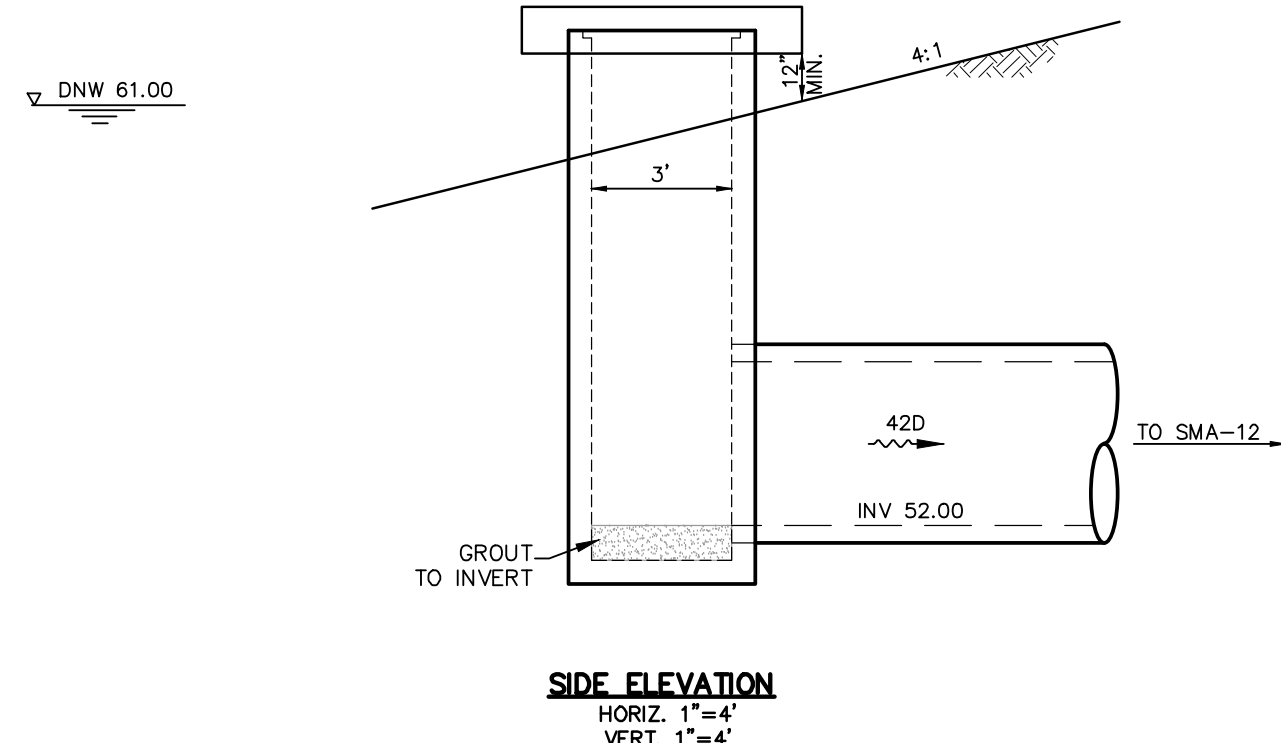
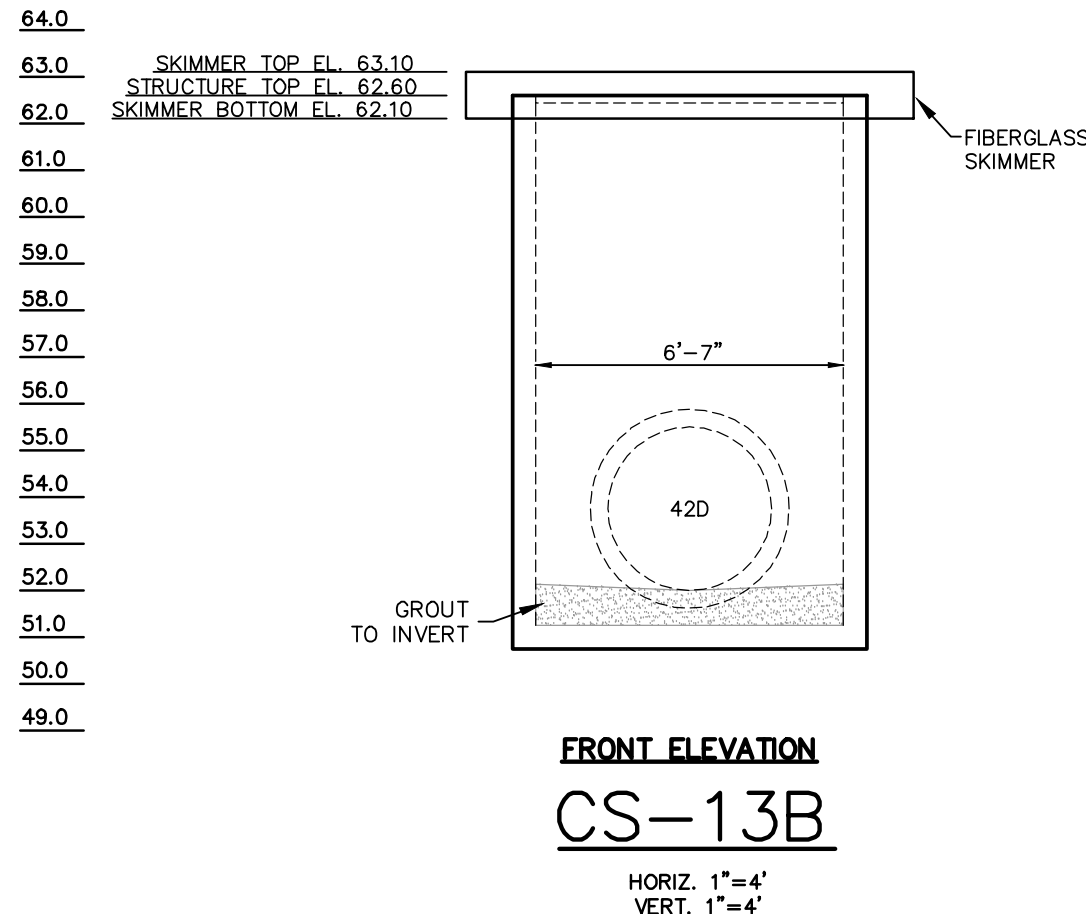
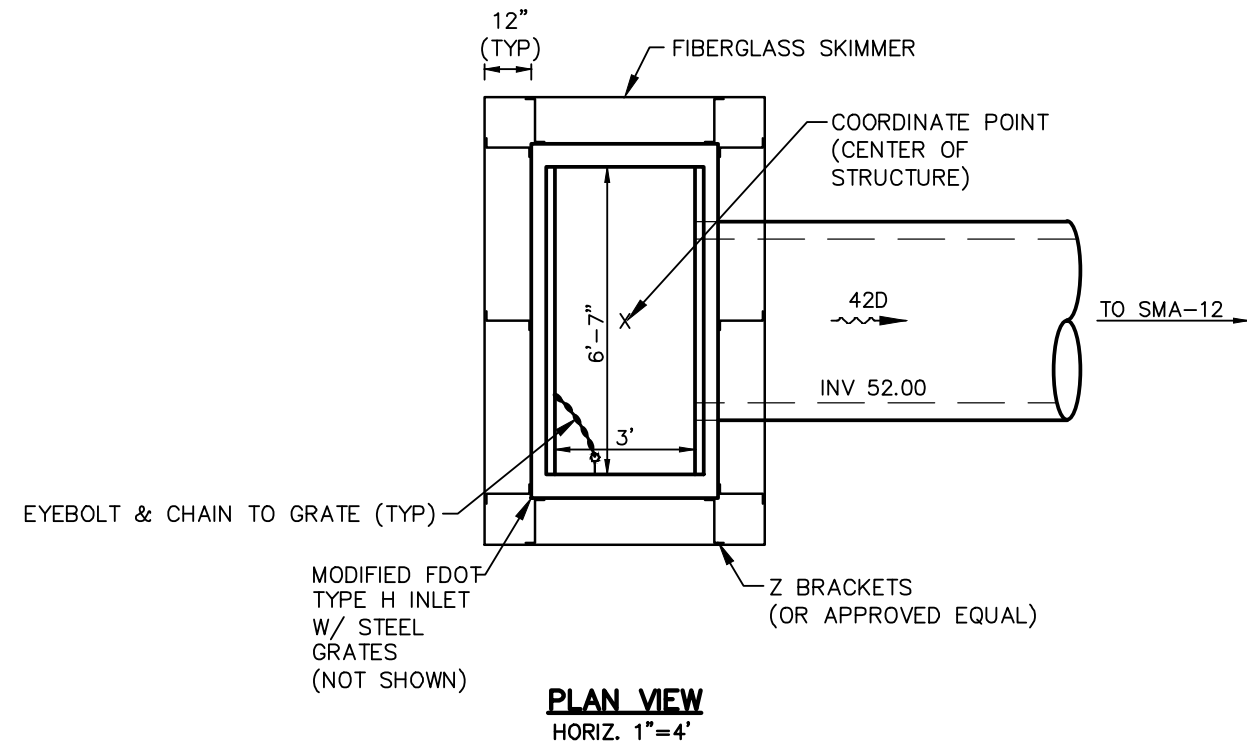
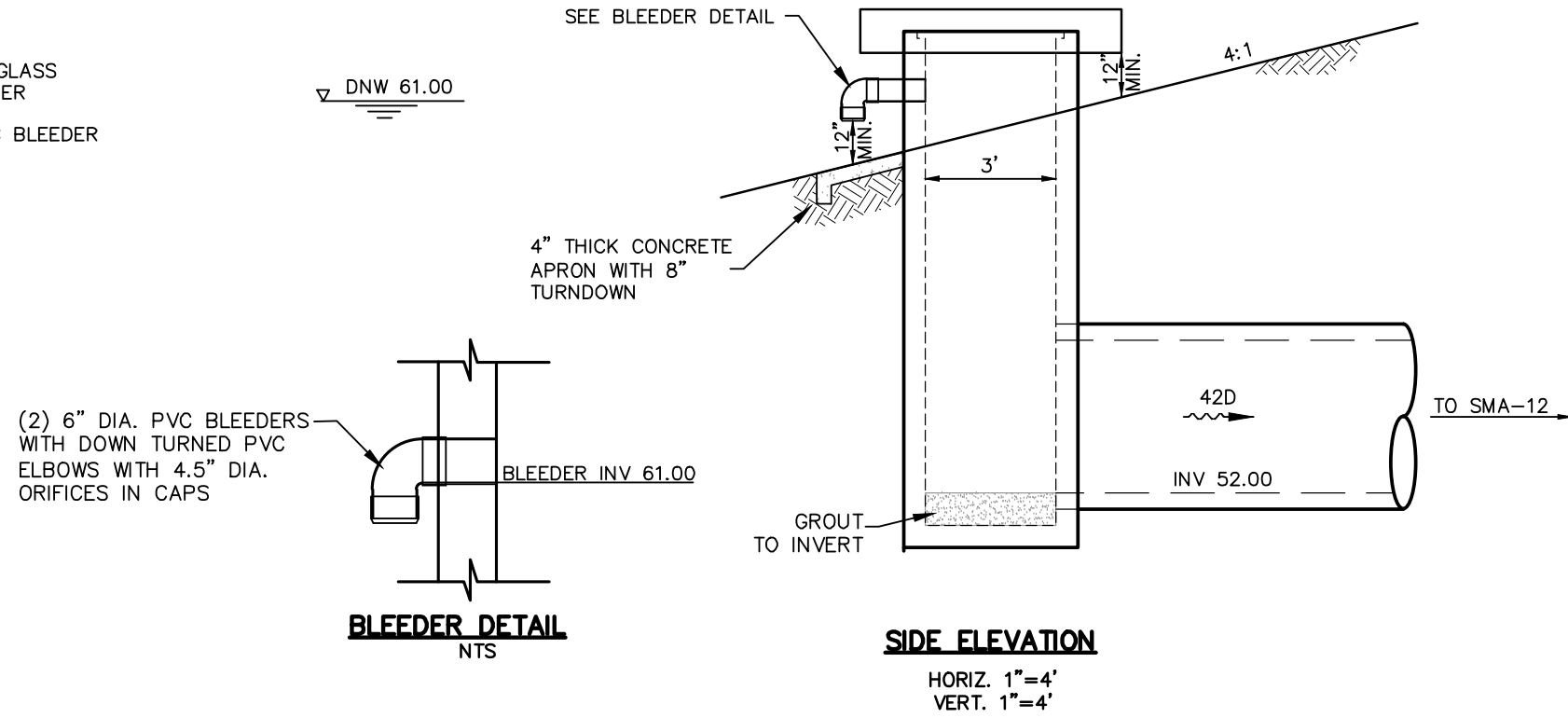
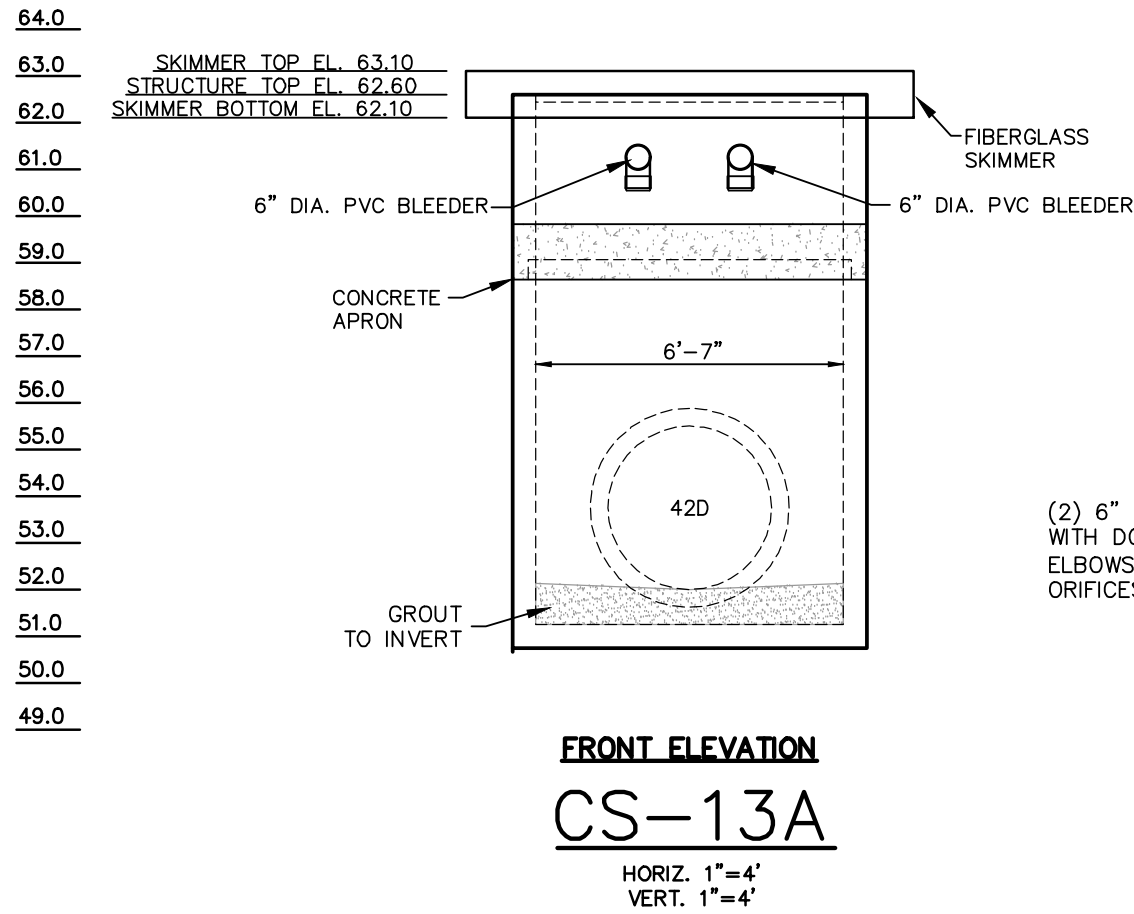
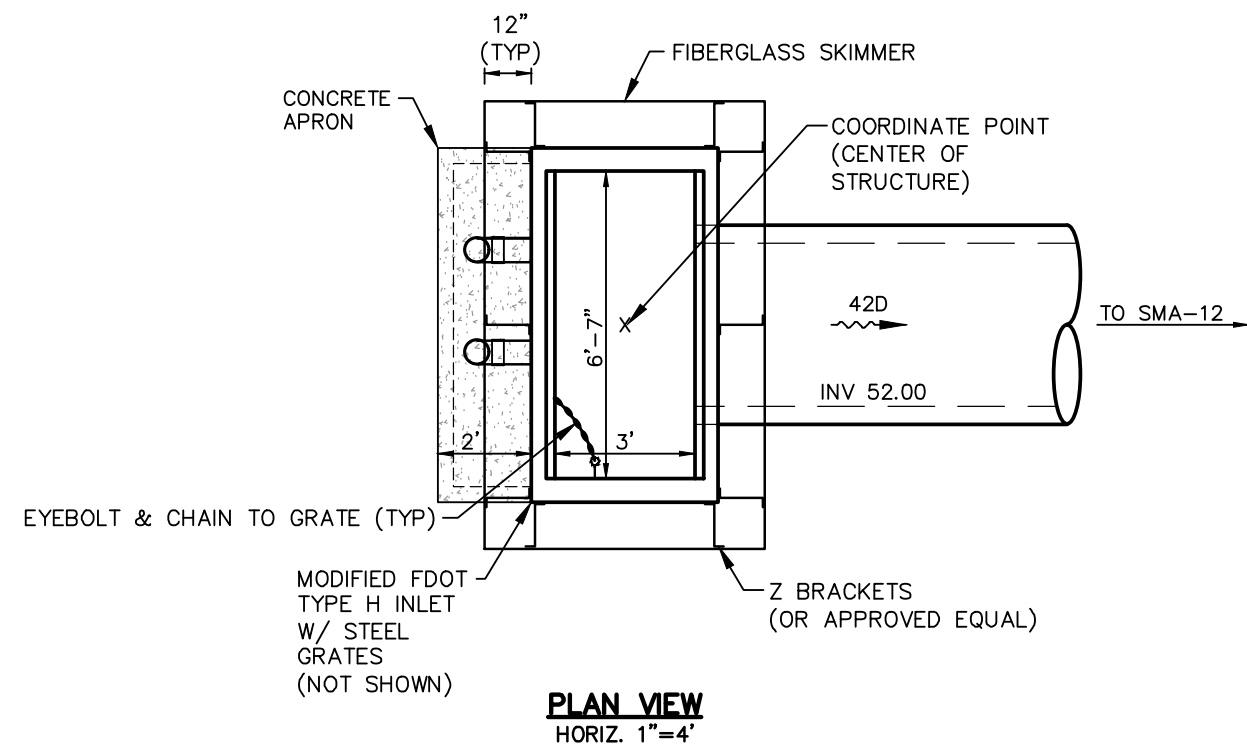
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DRAWING 13189-CTLSTR	SHEET C334	28 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA CONTROL STRUCTURE DETAILS	 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	JOB NUMBER 13189	SCALE AS SHOWN	DATE 5/2/18	CHECKED BY JCN	DESIGNED BY DSW	DRAWN BY DSW	REVISIONS		NO.	DATE	CHK.

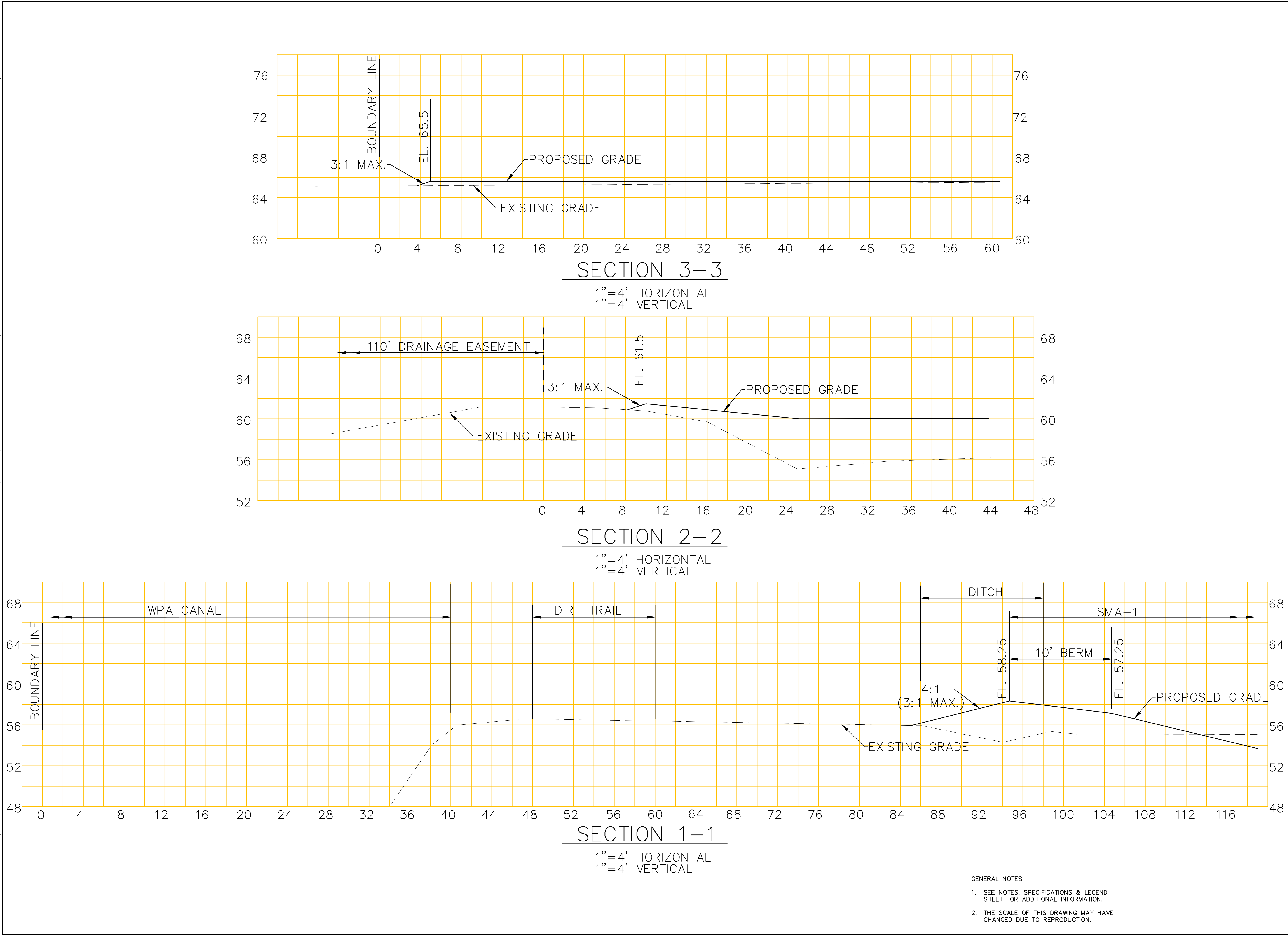
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DRAWING 13189-CTLSTR	SHEET C335	29 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA CONTROL STRUCTURE DETAILS		DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____	JOB NUMBER 13189	SCALE AS SHOWN	DATE 5/2/18	CHECKED BY JCN	DESIGNED BY DSW	DRAWN BY DSW	REVISIONS		CHK
													NO.	DATE	
													1	6/17/21	
													REVISED PER 57553 COMMENTS	JCN	

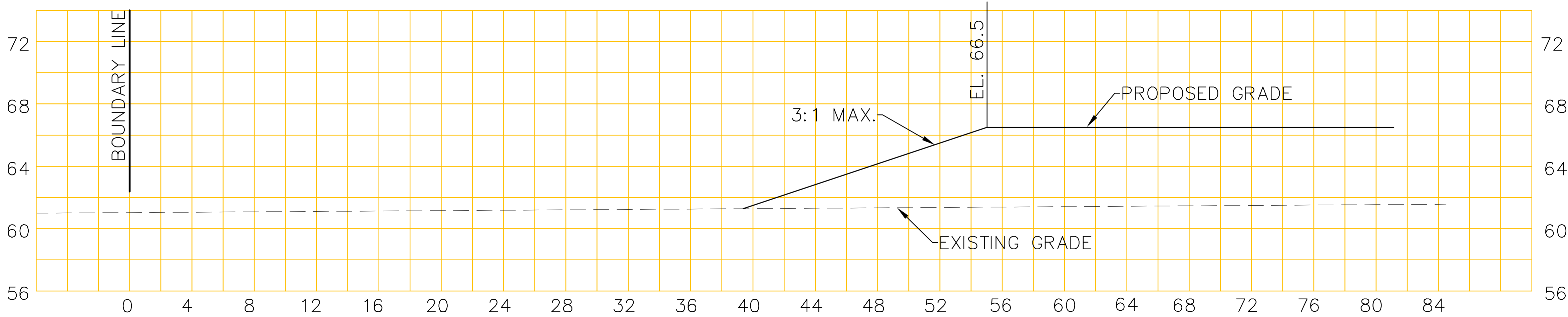
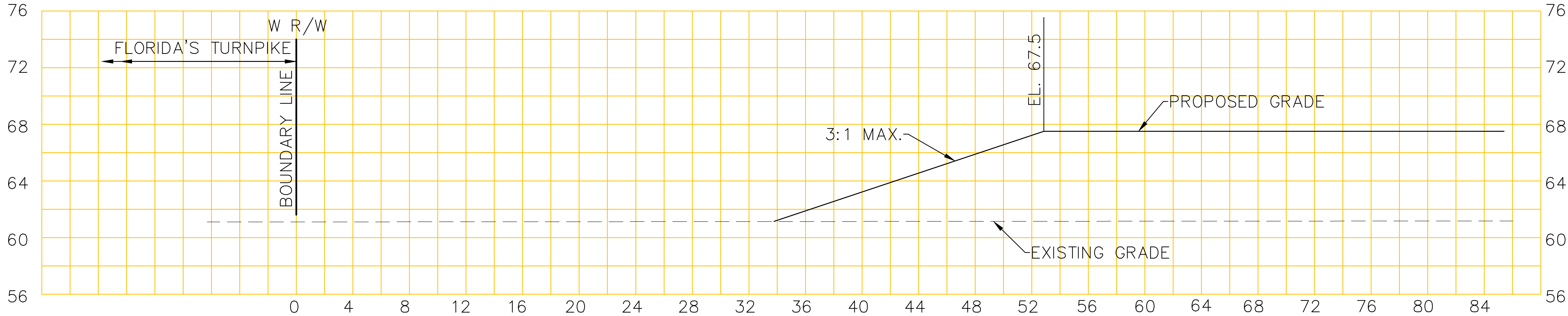
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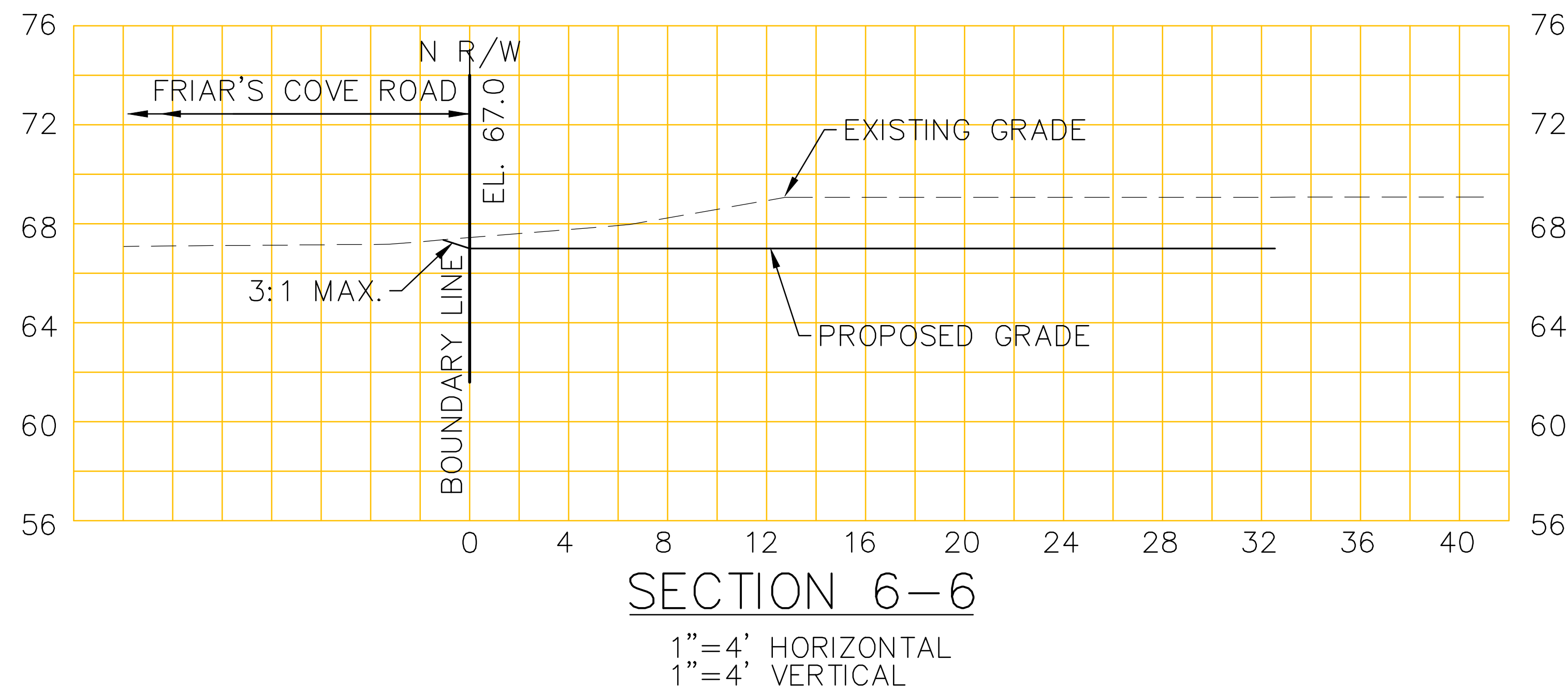
DRAWING 13189-XSECT	SHEET C341	30 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA PERIMETER CROSS SECTIONS		DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68	PLANNERS SURVEYORS JAMES C. NUGENT FLORIDA P.E. No. 57553	REVISIONS	
							NO.	DATE
							1	11/25/18
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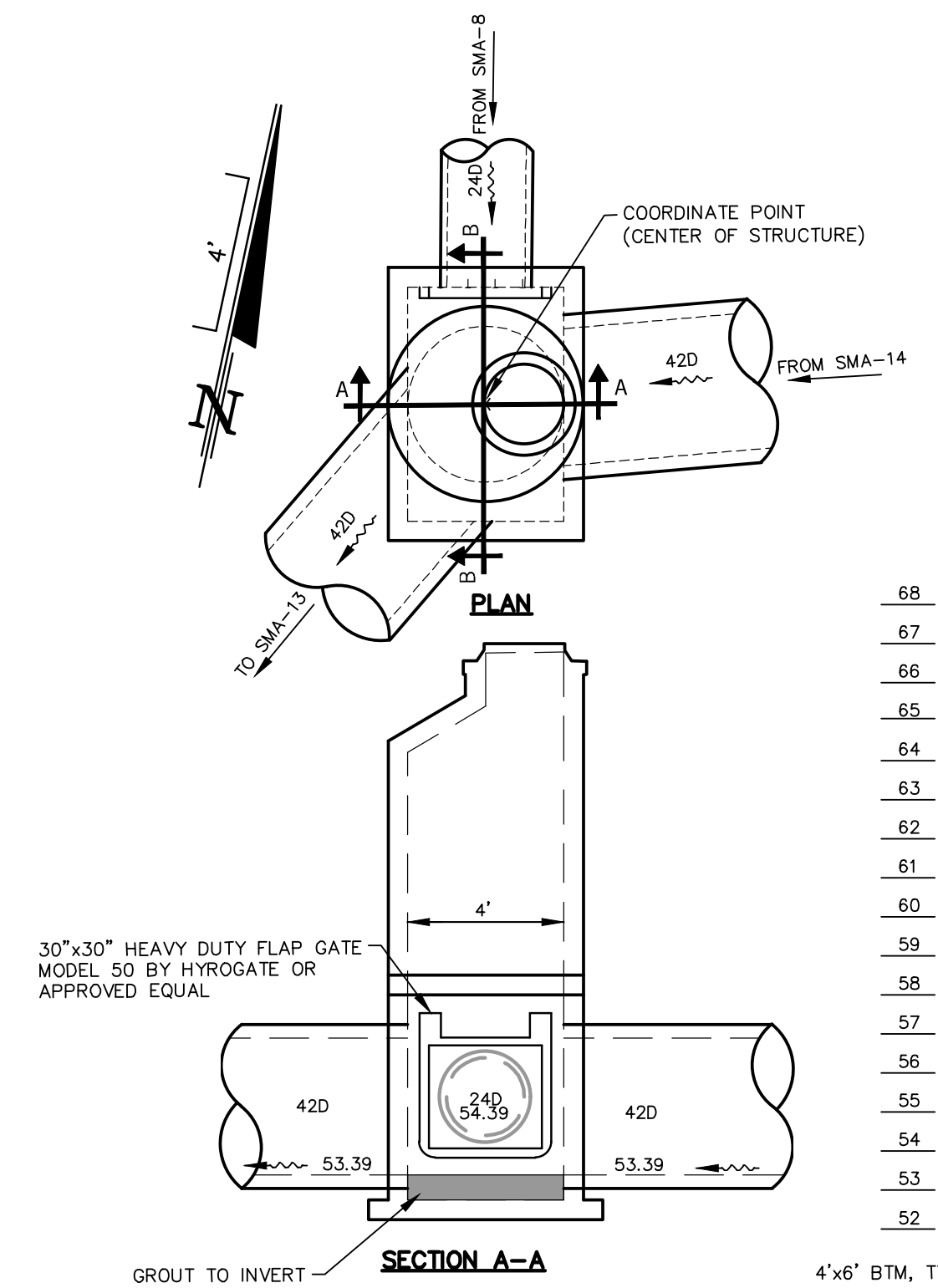
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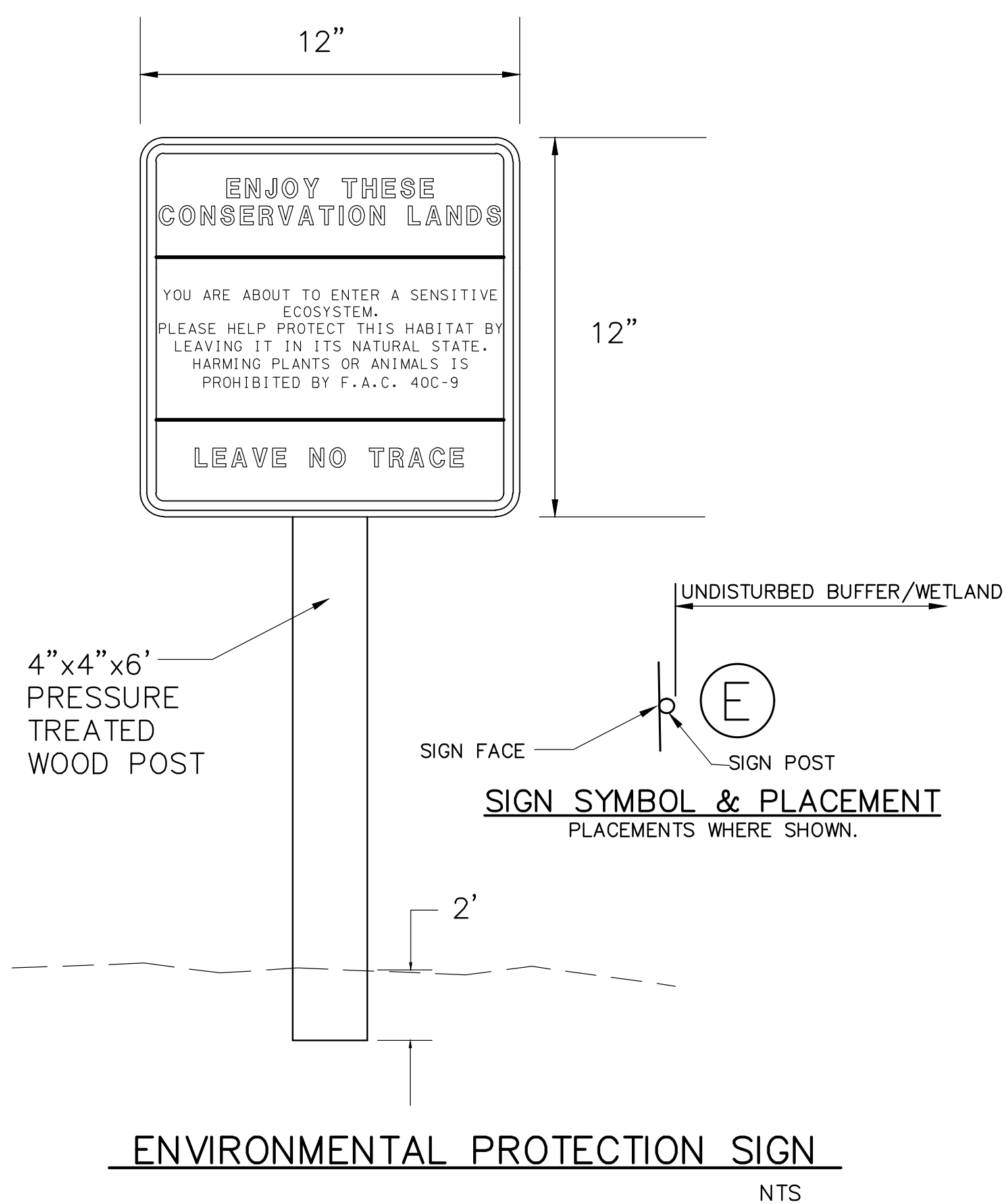
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DRAWING 13189-XSECT	SHEET C342	31 OF 33	FONTANA CONCEPTUAL MASS GRADING PLANS OSCEOLA COUNTY, FLORIDA PERIMETER CROSS SECTIONS			 DONALD W. MCINTOSH ASSOCIATES, INC. ENGINEERS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68										DESIGNED BY DSW CHECKED BY JCN DATE 5/2/18 SCALE AS SHOWN JOB NUMBER 13189				JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____		NO.		DATE		REVISIONS		CHK

[illegible]



DM-44
HORIZ. 1"=4'
VERT. 1"=4'

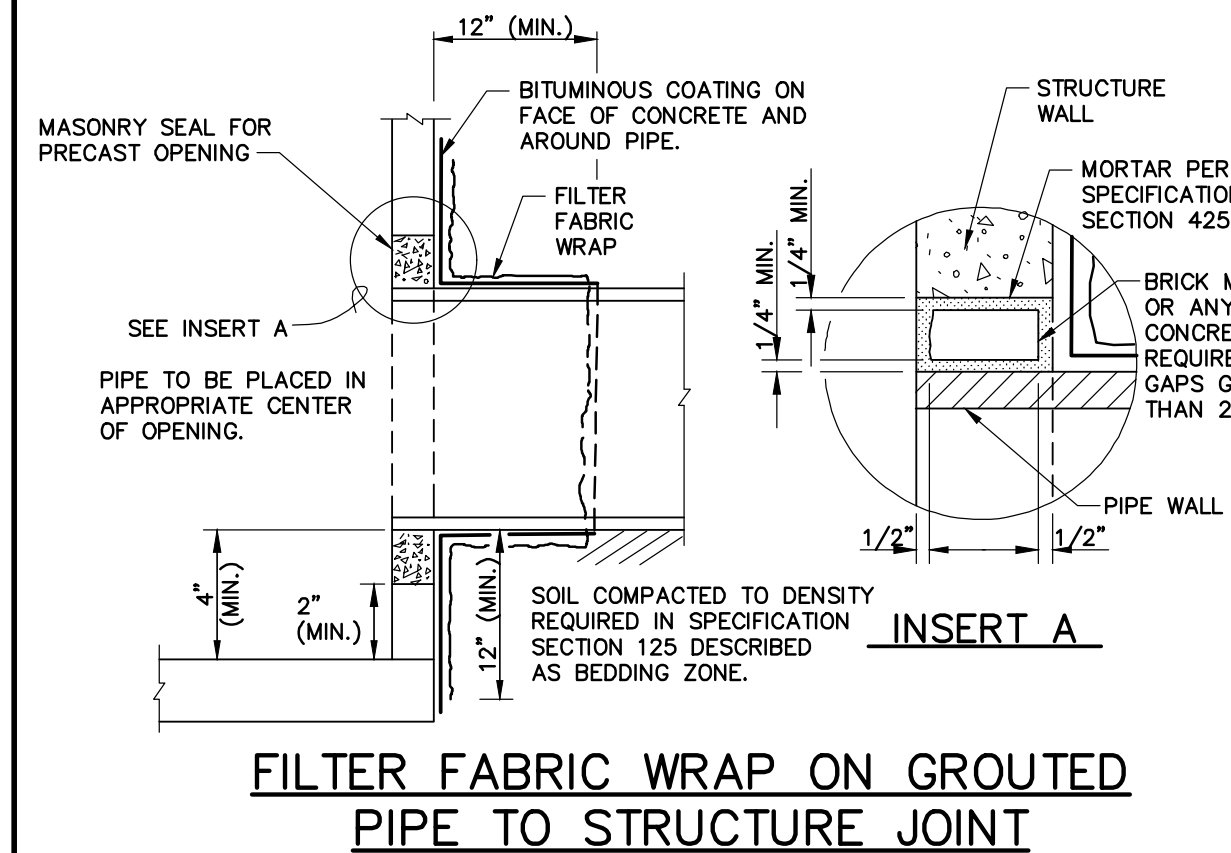
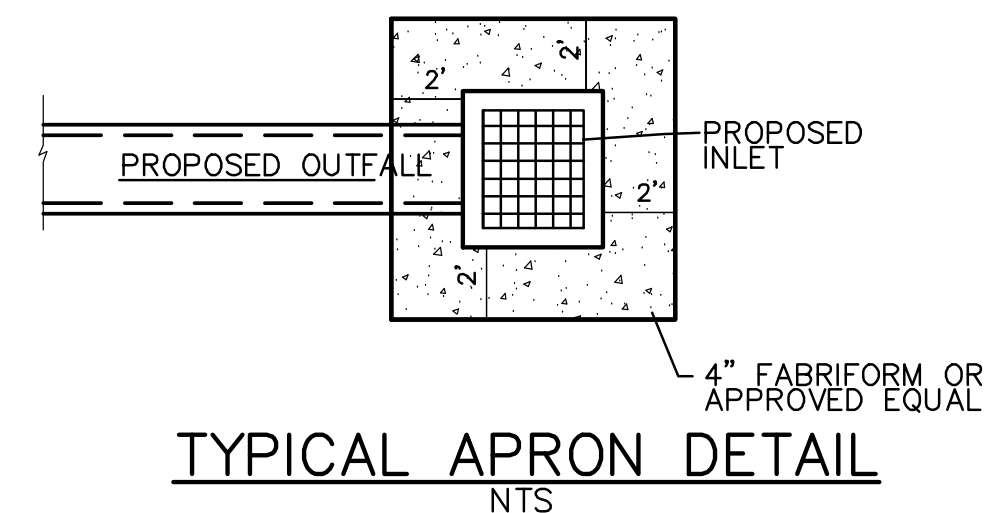
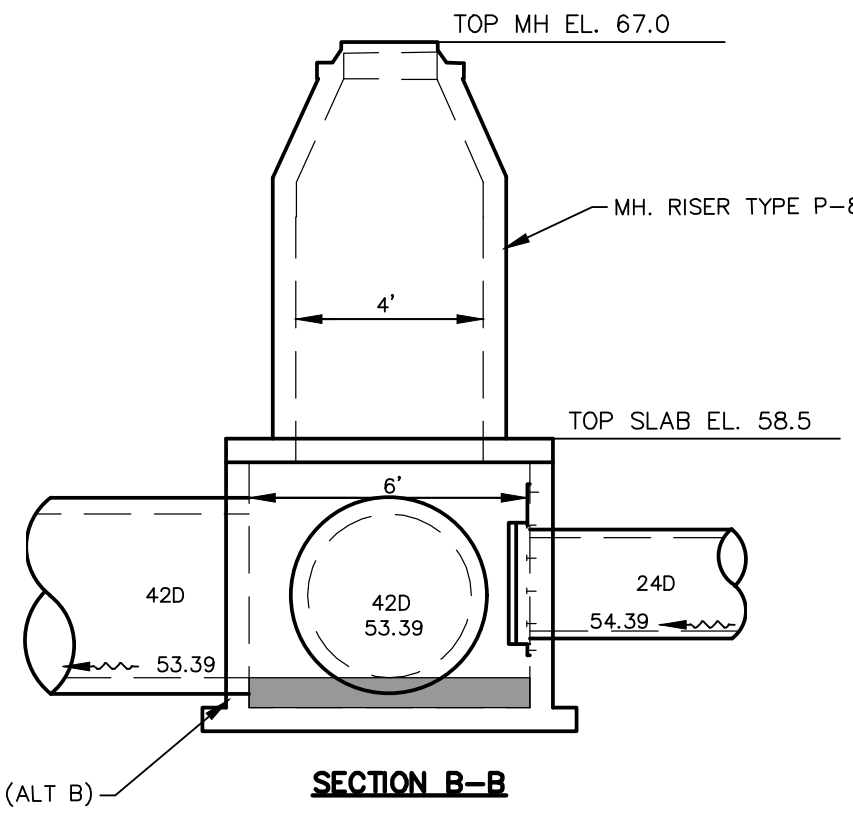
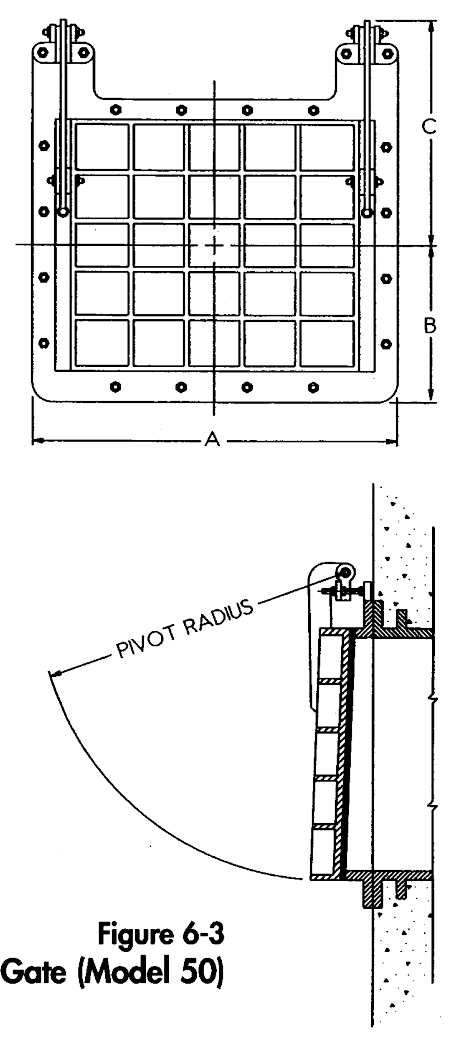


NOTE:
CONTRACTOR SHALL ERECT PERMANENT MONUMENTS THAT ARE
VISIBLE AND CLEARLY DEFINE THE CONSERVATION AREA BOUNDARY.

Model 50 Square and Rectangular Openings for Heads to 50 Ft

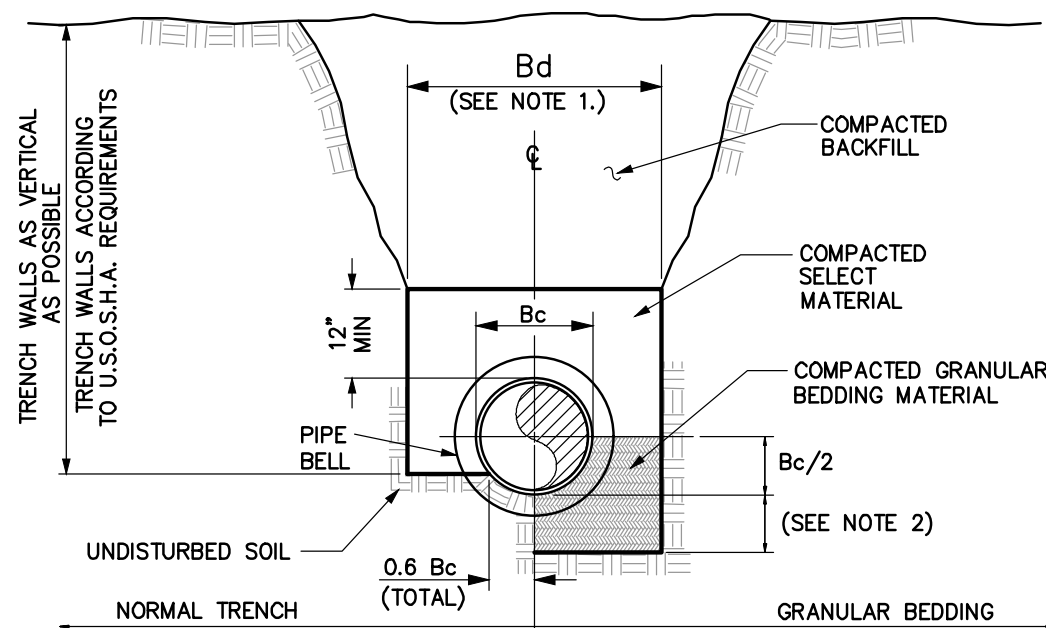
Opening Dia. (In.)	Dimensions (In.)			Pivot Radius (In.)	Opening Dia. (In.)	Dimensions (In.)			Pivot Radius (In.)
	A	B	C			A	B	C	
12 x 12	18.00	9.00	11.25	18.25	60 x 36	70.00	32.00	29.00	48.75
18 x 18	25.00	12.50	15.75	25.00	60 x 48	70.00	29.00	37.75	51.50
24 x 24	32.00	15.00	19.50	31.25	60 x 60	70.00	23.00	45.75	75.75
30 x 18	37.00	12.50	15.75	25.00	66 x 42	76.00	26.00	32.75	53.50
30 x 30	40.50	18.75	20.25	40.25	72 x 48	76.00	38.00	32.00	85.00
36 x 24	44.00	16.00	21.00	31.25	72 x 48	82.00	29.00	37.75	61.75
36 x 36	44.00	22.00	27.50	45.25	72 x 60	82.00	35.00	45.75	75.75
42 x 30	52.00	19.25	23.25	38.25	72 x 72	82.00	41.00	54.75	90.50
42 x 42	52.00	25.00	32.50	53.25	84 x 60	94.00	35.00	46.00	75.75
48 x 24	56.00	16.00	19.00	29.25	84 x 84	94.00	47.00	62.25	104.00
48 x 36	56.00	22.00	27.50	46.50	96 x 60	106.00	38.00	46.00	76.00
48 x 48	58.00	29.00	37.75	61.75	96 x 84	108.00	48.00	62.50	104.00
54 x 36	63.00	22.50	27.50	47.50	96 x 96	108.00	54.00	69.00	117.00
54 x 54	64.00	32.00	39.75	66.75	108 x 108	120.00	60.00	76.00	138.00
60 x 30	68.00	19.00	24.25	39.75	120 x 120	132.00	60.00	81.00	149.00

Figure 6-3
Heavy-Duty Flap Gate (Model 50)

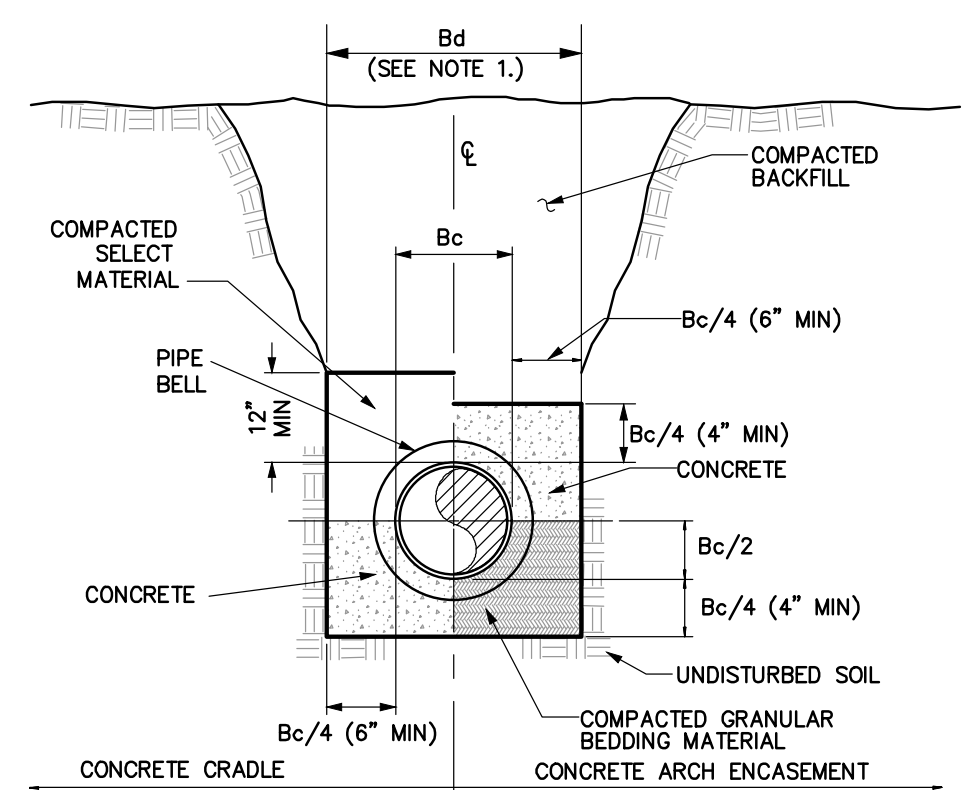


NOTES:

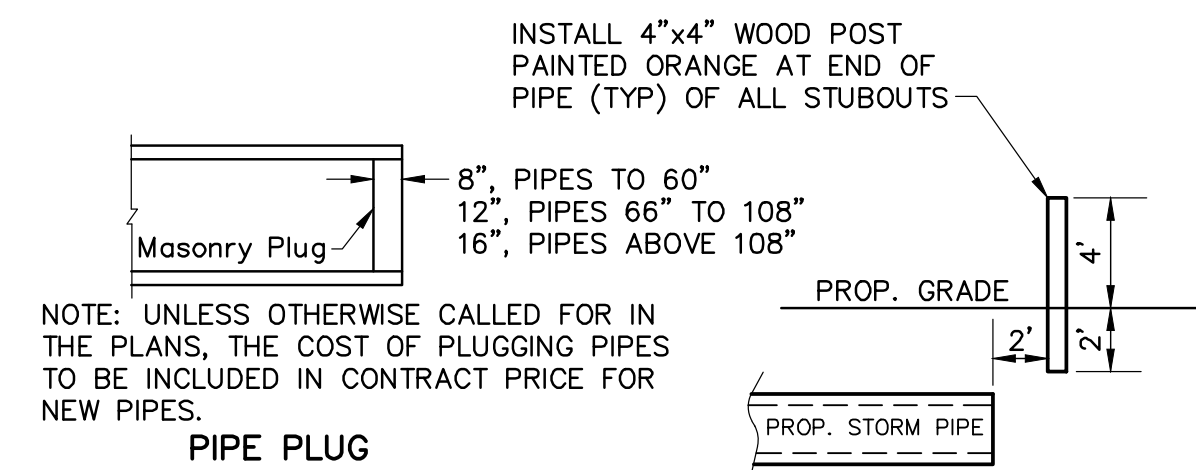
1. $B_c = \text{PIPE O.D.}$
 $B_d = \text{TRENCH WIDTH AT TOP OF PIPE}$
 $B_d = B_c + 24"$
 $\text{MIN. } B_d = \text{MAX DIM OF BELL} + 8"$
 (UNSHEETED TRENCH) MAX. DIM. OF
 $B_d + 12"$ (SHEETED TRENCH)
2. DEPTH FOR REMOVAL OF UNSUITABLE
 MATERIAL SHALL BE AS REQUIRED TO
 REACH SUITABLE FOUNDATION. FOR NON-
 REMOVAL OF MATERIAL, DEPTH SHALL BE
 6" BELOW BOTTOM OF UTILITY.
3. SHEETING SHALL BE DRIVEN BELOW
 THE UTILITY INVERT IF REQUIRED FOR
 LATERAL SUPPORT, OR UNSUITABLE
 MATERIAL REMOVAL. SHEETING SHALL
 BE LOW PIPE INVERT, SHEETING SHALL
 BE CUT OFF A MIN. OF 12" ABOVE TOP
 OF PIPE, OR HIGHER AS AUTHORIZED BY
 THE ENGINEER, AND SHALL BE
 BRACED TO REMAIN UPRIGHT.
 IN NO CASE SHALL SHEETING LEFT IN
 PLACE EXCEED HIGHER THAN 30' BELOW
 GRADE UNLESS SPECIFICALLY
 APPROVED BRACING SHALL BE PROVIDED
 AS REQUIRED.



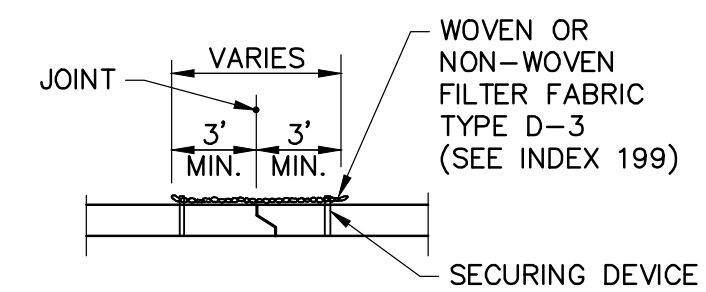
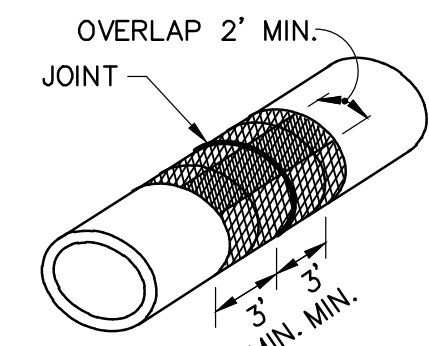
CLASS "B" BEDDING – NORMAL CONDITIONS
NOT TO SCALE



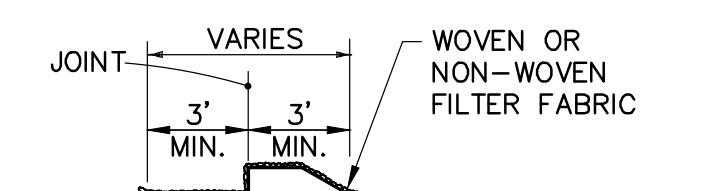
CLASS "A" BEDDING – SPECIAL CONDITIONS
NOT TO SCALE



WOOD POST @ END PIPE DETAIL

ELLIPTICAL PIPE

ELLIPTICAL PIPE SHOWN
ISOMETRIC VIEW



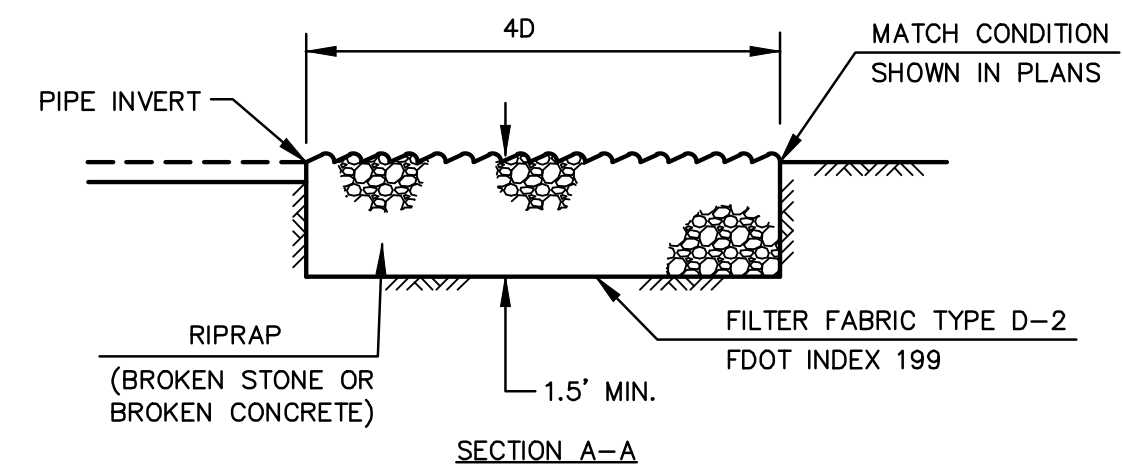
ROUND PIPE
PIPE SECTIONS

COST OF FILTER FABRIC JACKET TO BE INCLUDED IN
COST OF PIPE CULVERTS.

FOR ALL PIPE TYPES – CONCRETE PIPE SHOWN

NOTE:
ALL PIPE JOINTS IN DRAINAGE EASEMENTS & ADJACENT TO
BUILDING ENVELOPES SHALL BE WRAPPED WITH FILTER FABRIC.

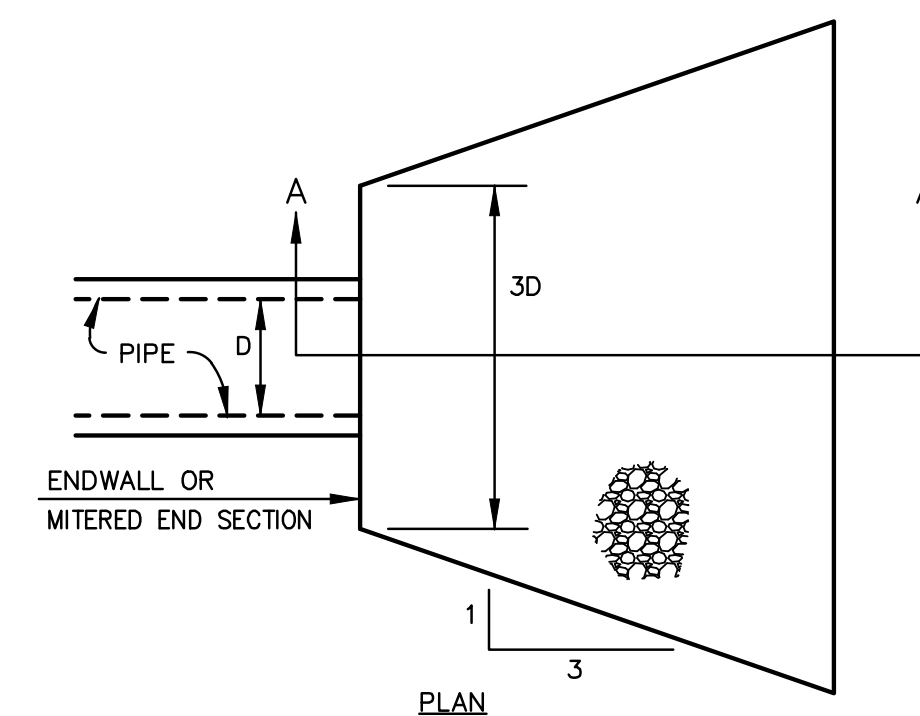
FILTER FABRIC JACKET



RIPRAP SHALL MEET THE REQUIREMENTS OF FDOT STANDARD SPECIFICATIONS SECTION 530 INCLUDING THE FOLLOWING GRADATION:

WEIGHT MAX. (POUNDS)	WEIGHT 50% (POUNDS)	WEIGHT MIN. (POUNDS)
75	30	4

ENSURE THAT AT LEAST 97% OF THE MATERIAL BY WEIGHT IS SMALLER THAN WEIGHT MAXIMUM POUNDS. ENSURE THAT AT LEAST 50% OF THE MATERIAL BY WEIGHT IS GREATER THAN WEIGHT 50% POUNDS. ENSURE THAT AT LEAST 90% OF THE MATERIAL BY WEIGHT IS GREATER THAN WEIGHT MINIMUM POUNDS.



RIPRAP APRON DETAIL
NOT TO SCALE

GENERAL NOTES:

1. SEE NOTES, SPECIFICATIONS & LEGEND SHEET FOR ADDITIONAL INFORMATION.
2. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.

DRAWING 13169-GDDT	FONTANA
SHEET	CONCEPTUAL MASS GRADING PLANS
C351	OSCEOLA COUNTY, FLORIDA
33 OF 33	GRADING AND DRAINAGE DETAILS



DONALD W. MCINTOSH ASSOCIATES, INC.
ENGINEERS PLANNERS SURVEYORS
2500 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

DRAWN BY <u>DSW</u>	DESIGNED BY <u>DSW</u>	CHECKED BY <u>JCN</u>	DATE <u>5/2/18</u>	SCALE <u>NTS</u>	JOB NUMBER <u>13189</u>
JAMES C. NUGENT FLORIDA P.E. No. 57553 DATE: _____					
No.	DATE	REVISIONS			
		CHK.			