

VERO BEACH

PROJECT #1422 - STORE #
8990 20TH STREET

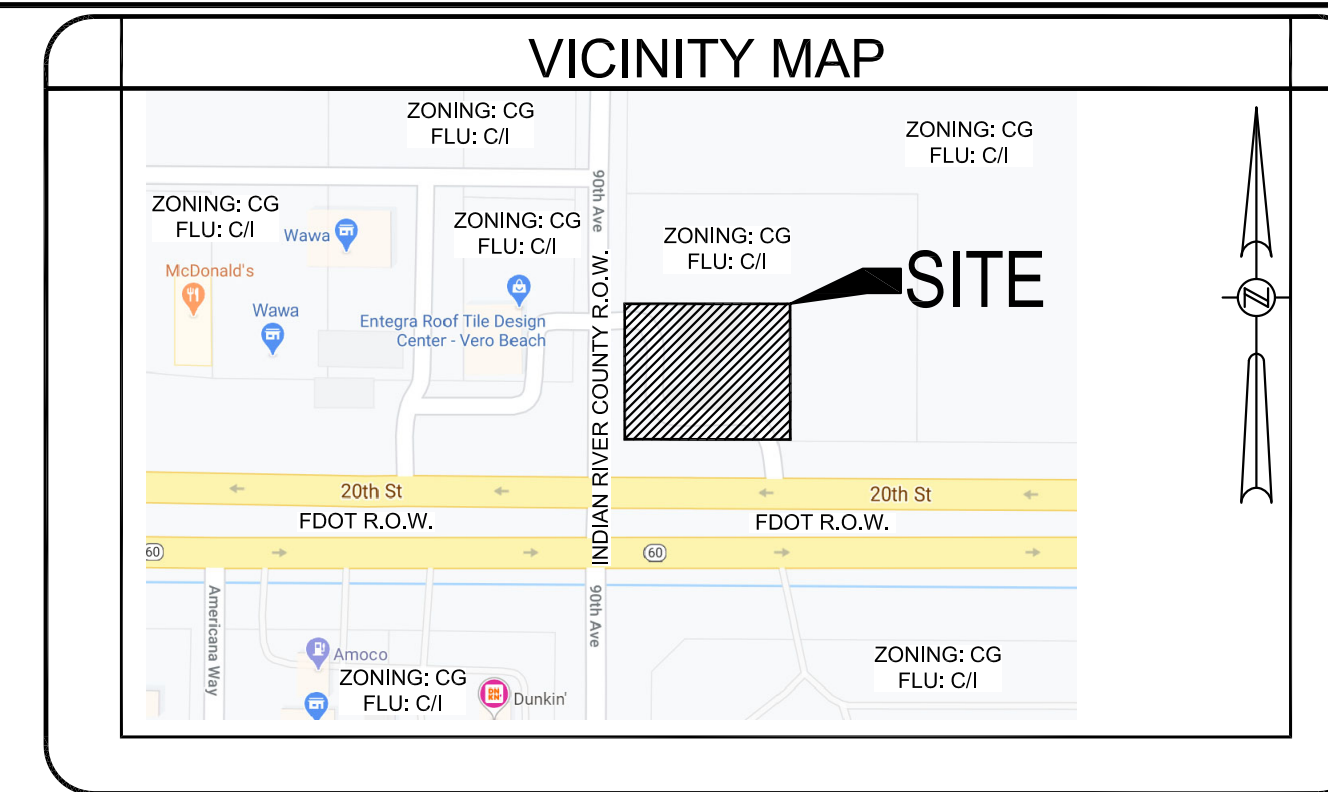
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33-32-02-00001-0050-00001.1

FINAL ENGINEERING PLANS

VERO BEACH, INDIAN RIVER COUNTY, FLORIDA

OWNER

M & R UNITED, INC.
402 HIGH POINT DR STE 101
COCOA, FL 32926



PROJECT INFORMATION	
ZONING	GENERAL COMMERCIAL (CG)
PARCEL ID	33-38-02-00001-0050-00002.0 33-38-02-00001-0050-00004.0 33-38-02-00001-0050-00001.1
FL HEALTH GT CONSTRUCTION	
B.C. DNR	
I.R. COUNTY	PROJECT #99100053, APP #66880
COUNTY ROW	
COUNTY UTILITY	
FDOT ACCESS	2020-A-490-00021
FDOT DRAINAGE	2020-D-490-00010
SJRWMD ERP MOD	APPLICATION #161705-1
IRFWCD SITE PLAN	PERMIT NO 20-21
FDEP WATER	04/03/2020
TYPE A SWSM IRC	

CONSULTANTS		
ENGINEER TANNATH DESIGN, INC. BRYAN POTTS, P.E. 2494 ROSE SPRING DR ORLANDO, FL 32825 PHONE: (407) 982-9878	LANDSCAPE ARCHITECT MILLS DESIGN GROUP INC. COREY MILLS, R.L.A. 10 WINDSOMERE WAY, STE 500 OVIEDO, FL 32765 PHONE: (407) 359-5425	SURVEYOR WATSON KILLANE SURVEYING AND MAPPING, INC. 2240 NE DIXIE HIGHWAY JENSEN BEACH, FL 34957 CRAIG D. WATSON, P.S.M. PHONE: (772) 334-0868

UTILITY PROVIDERS		
WATER INDIAN RIVER COUNTY 1801 27TH STREET VERO BEACH, FL 32960-3388 JESSE ROLAND PHONE: (772) 226-1636	ELECTRIC FLORIDA POWER AND LIGHT 3301 ORANGE AVENUE FT. PIERCE, FL 34947 KAREN DORAN PHONE: (772) 489-6255	TELEPHONE AT&T IVAN ARILL PHONE: 321-388-9719
SANITARY SEWER INDIAN RIVER COUNTY 1801 27TH STREET VERO BEACH, FL 32960-3388 JESSE ROLAND PHONE: (772) 226-1636	GAS FLORIDA CITY GAS 4045 NW 97TH AVENUE DORAL, FL 33178 TIMOTHY KNUITSON PHONE: (772) 226-3921	CABLE COMCAST CABLE RICK JOHNSON PHONE: 772-402-4513
STORM SJRWMD 525 COMMUNITY COLLEGE PKWY, S.E. PALM BEACH, FL 32909 PHONE: (321) 984-4940	FIRE DISTRICT INDIAN RIVER COUNTY 4225 43RD AVENUE VERO BEACH, FL 32967 ROGER DION PHONE: (863) 534-6792	OTHER

THIS MATRIX HAS BEEN PROVIDED FOR INFORMATIONAL PURPOSES. THE CONTRACTOR SHALL PROVIDE ANY AND ALL APPURTANCES, TRENCHING AND BACKFILL, AND OTHER INCIDENTALS TO MEET OR EXCEED THE SPECIFICATIONS OF THE ITEMS LISTED.

PLANS PREPARED FOR: RACETRAC PETROLEUM, INC.

RACETRAC 24-HOUR PHONE NUMBER: (229) 221-9567

CONTACT NAME: SAMANTHA JONES

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

SHEET INDEX			
NO.	SHEET DESCRIPTION	REV	DATE
C-0.0	COVER SHEET	4	01/27/22
S1	BOUNDARY & TOPOGRAPHIC SURVEY	5	10/21/20
S2	BOUNDARY & TOPOGRAPHIC SURVEY	5	10/21/20
S3	BOUNDARY & TOPOGRAPHIC SURVEY	5	10/21/20
GR	GENERAL REQUIREMENTS	4	05/03/21
C-1.0	DEMOLITION PLAN	5	10/25/21
C-1.1	EROSION CONTROL PLAN	7	12/20/21
C-2.0	MASTER SITE PLAN	8	12/20/21
C-2.1	SITE PLAN	12	01/25/22
C-2.2	HORIZONTAL CONTROL PLAN	8	12/20/21
C-2.3	STRIPING PLAN	8	12/20/21
C-2.4	90TH AVE & SR60 INTERSECTION	9	01/18/22
C-2.5	AUTO TURN PLAN	4	12/20/21
C-3.0	PAVING PLAN	7	12/20/21
C-3.1	JOINTING PLAN	6	12/20/21
C-3.2	GRADING PLAN	6	10/20/21
C-3.3	DRAINAGE PLAN	6	05/19/21
C-3.4	OFF-SITE DRAINAGE	4	07/27/21
C-3.5	SR60 TURN LANE	5	05/19/21
C-4.0	UTILITY PLAN	8	12/20/21
C-4.1	BUILDING CONNECTION PLAN	4	12/20/21
C-5.0	SITE CROSS SECTIONS	5	03/30/21
C-5.1	SITE CROSS SECTIONS	4	03/30/21
C-5.2	SITE CROSS SECTIONS	4	03/30/21
C-5.3	90TH AVE PLAN AND PROFILE		
C-5.4	90TH AVE PLAN AND PROFILE		
SD1	RACETRAC STANDARD DETAILS		
SD2	RACETRAC STANDARD DETAILS	1	12/10/20
SD3	RACETRAC STANDARD DETAILS		
SD4	RACETRAC STANDARD DETAILS	1	12/10/20
SD5	RACETRAC STANDARD DETAILS		
SD6	RACETRAC STANDARD DETAILS		
SD7	RACETRAC STANDARD DETAILS		
C-6.0	PAVING DETAILS	4	02/22/21
C-6.1	PAVING DETAILS	1	07/27/21
C-7.0	DRAINAGE DETAILS	3	05/10/21
C-7.1	POND SIDE DRAIN DETAILS	3	11/23/20
C-8.0	UTILITY DETAILS		
C-8.1	UTILITY DETAILS		
C-8.2	UTILITY DETAILS	1	03/24/21
L1.00	OVERALL SITE PLAN		
L1.01	TREE MITIGATION		
L1.11	PLANTING NOTES & SCHEDULE		
L1.12	STORE - PLANTING PLAN		
L1.13	POND - PLANTING PLAN		
L1.20	BUFFER CROSS SECTIONS		
L1.21	PLANTING DETAILS		
L2.11	IRR - NOTES & SCHEDULES		
L2.12	STORE - IRR PLAN		
L2.13	POND - IRR PLAN		
L2.21	IRRIGATION DETAILS		

IRC NOTES:
1. THE PROJECT WILL REQUIRE IRC ENGINEERING INSPECTIONS AT PREDEFINED INTERVALS AS REQUESTED AND ATTENDED BY THE EOR. AS-BUILTS, TEST RESULTS AND INSPECTION REPORTS ARE REQUIRED PRIOR TO ISSUANCE OF THE CO. (900.121100)
2. IRC INSPECTIONS ARE PERIODIC AND ARE FOR CHECKING THAT THE WORK IS PERFORMED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. THE EOR IS RESPONSIBLE FOR ALL QUALITY CONTROL AS IT RELATES TO THE PROJECT INCLUDING THE RIGHT OF WAY. A CONSTRUCTION SCHEDULE WILL BE REQUIRED AT THE PRECONSTRUCTION MEETING FOR OFFSITE WORK.

GENERAL NOTES:
1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
2. ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
3. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT CONTRACTOR'S EXPENSE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
4. WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
5. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.
6. CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
7. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS. THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED, ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL USE EACH PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATING WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY EFFECT THE OVERALL PROJECT.
9. ALL WORK SHOWN SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

LEGAL DESCRIPTION:
BEING A PARCEL OF LAND LYING IN TRACT 5, SECTION 2, TOWNSHIP 33 SOUTH, RANGE 38 EAST, ACCORDING TO THE PLAT OF THE INDIAN RIVER FARMS COMPANY SUBDIVISION FILED IN PLAT BOOK 2, PAGE 25, PUBLIC RECORDS OF ST. LUCIE COUNTY, FLORIDA; SAID LANDS NOW LYING AND BEING IN INDIAN RIVER COUNTY, FLORIDA; THE BOUNDARY OF SAID PARCEL BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
FROM THE SOUTHWEST CORNER OF THE AFORESAID TRACT 5, THENCE NORTH 00°17'32" EAST, ALONG THE WEST LINE OF TRACT 5, A DISTANCE OF 147.20 FEET TO A POINT ON THE WESTERLY EXTENSION OF THE NORTH RIGHT OF WAY LINE OF STATE ROAD 60 (20TH STREET) PER FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 88060-2525, SHEET 7 OF 32; THENCE SOUTH 89°49'13" EAST, ALONG SAID WESTERLY EXTENSION OF THE NORTH RIGHT OF WAY LINE, A DISTANCE OF 30.00 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE SOUTH 89°49'13" EAST, ALONG SAID NORTH RIGHT OF WAY LINE, A DISTANCE OF 580.00 FEET; THENCE DEPARTING SAID NORTH RIGHT OF WAY LINE; NORTH 00°17'32" EAST, A DISTANCE OF 450.00 FEET; THENCE NORTH 89°49'13" WEST, A DISTANCE OF 580.00 FEET TO A POINT ON THE EAST RIGHT OF WAY LINE OF 90TH AVENUE; THENCE SOUTH 00°17'32" WEST, ALONG SAID EAST RIGHT OF WAY LINE, A DISTANCE OF 450.00 FEET TO THE POINT OF BEGINNING.
CONTAINING: 261,000.17 SQUARE FEET OR 5.99 ACRES MORE OR LESS.

NO.	REVISIONS	DATE
1	ISSUED FOR PERMITTING	11/15/19
2	REVISED PER COMMENTS	05/11/20
3	REVISED PER COMMENTS	10/10/20
4	REVISED PER COMMENTS	12/10/20
5	UPDATED TABLE OF CONTENTS	01/27/22
6	REVISED PER COMMENTS	06/29/22

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
FAC 19G-63.0001

TANNATH DESIGN, INC.
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(407) 982-9878
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FL. CERT. OF AUTH. #27199

THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS; ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF PETROLEUM, INC. IS PROHIBITED.

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ATLANTA, GA 30339
(770) 431-7600

COVER SHEET
RACETRAC #1422 - VERO BEACH
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	NTS
PROJECT NUMBER:	024-108
C-0.0	5
SHEET NO.	VERSION



GENERAL NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
- AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND GUARANTEE THAT EXISTING UTILITIES WILL BE PROTECTED PRIOR TO NOTIFYING THE OWNER & ENGINEER OF RECORD OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. CONSTRUCTION MANAGERS APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTORS AND UTILITY COMPANIES.
- MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.
- CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATION WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY EFFECT THE OVERALL PROJECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS.

GENERAL DEMOLITION NOTES & SPECIFICATIONS:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO CARRY OUT THE WORK AS SHOWN ON THE DEMOLITION PLAN.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING UTILITIES PRIOR TO DEMOLITION AND EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE AND DISPOSE OF ALL DEMOLITION MATERIALS.
- DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF THE UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF ANY BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND UTILITY SERVICES.
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, COMPACT FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
- ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE TELEVISION SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED ON THE PLANS.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND UTILITY COMPANY FOR THE RELOCATION AND/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.
- THE CONTRACTOR IS RESPONSIBLE FOR EXISTING STRUCTURES, STORM LINES, PAVEMENT, POWER POLES AND UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
- ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER.
- ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED.
- EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
- EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON-SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE NOTED.
- LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED.
- IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- REFER TO SURVEY FOR LIMITS AND BOUNDARY OF PROPERTY.

DIMENSION NOTES:

- ALL DIMENSIONS SHOWN TO BUILDING ARE TO FACE OF STRUCTURAL CMU.
- ALL CURB DIMENSIONS ARE TO THE FACE OF GUTTER OF CURB UNLESS OTHERWISE NOTED.

TANK NOTES:

- TOP OF TANK ELEVATION = 22.01'
- CONTRACTOR SHALL MAINTAIN A MINIMUM GROUND COVER OF 3' OVER UNDERGROUND STORAGE TANKS.

STRUCTURE TYPES:

- DRAINAGE STRUCTURES SHALL BE PRECAST OR CAST-IN-PLACE CONCRETE IN ACCORDANCE WITH DOT REQUIREMENTS AS FOLLOWS:
 - AREA INLETS - 08-01 OR PC-01 (PIPE SIZE 36" AND SMALLER) ALL INLET FRAMES AND GRATES SHALL BE YULCAN FOUNDRY CORP. CATALOG # V-4683 OR EQUAL.
 - TRENCH DRAINS SHALL BE AQUADUCT. PROVIDED BY RACETRAC AND INSTALLED BY GENERAL CONTRACTOR.

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

EROSION CONTROL NOTES:

- THE CONTRACTOR SHALL CONSTRUCT THE SILT FENCING AS SHOWN ON THE EROSION CONTROL PLAN AT THE PERIMETER OF THE DISTURBED AREA PRIOR TO LAND CLEARING ACTIVITIES.
- LAND DISTURBING ACTIVITIES SHALL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
- PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN UNTIL ALL SUCH MEASURES ARE IN PLACE.
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE PRIOR TO ANY EARTHWORK OPERATIONS.
- CONTRACTOR SHALL MAINTAIN SILT FENCES FOR THE DURATION OF THE PROJECT UNTIL ACCEPTED BY THE OWNER AT NO EXPENSE TO OWNER.
- CONTRACTOR SHALL MAINTAIN EROSION CONTROL FACILITIES DURING THE ENTIRE CONSTRUCTION PERIOD. FACILITIES ARE NOT TO BE REMOVED UNTIL COMPLETION OF THE PROJECT AND THE SITE IS STABILIZED.
- SILT FENCES SHALL BE CLEANED OR REPLACED WHEN TRAPPED SEDIMENT REACHES 50 PERCENT OF THE ABOVE GROUND FENCE HEIGHT OR A LOWER HEIGHT BASED ON MANUFACTURER'S SPECIFICATIONS.
- SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- CONTRACTOR SHALL INSPECT ON A DAILY BASIS FOR NEEDED REMOVAL OF ANY ACCUMULATED SILTS, DEBRIS, OR REPAIR OF DAMAGED SILT FENCE AT NO ADDITIONAL EXPENSE TO OWNER.
- ALL EROSION CONTROL MEASURES EXCEPT THE REQUIRED RIP RAP ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION ONCE STABILIZATION OF ALL GRASSSED AREAS ARE COMPLETE.
- ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF YEAR.
- FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE. SURFACE RUNOFF SHALL BE INTERCEPTED AT THE TOP OF TEMPORARY AND PERMANENT SLOPES DURING CONSTRUCTION SO THAT WATER IS NOT ALLOWED TO FLOW OVER THE SLOPE FACE.
- THE GENERAL CONTRACTOR AND THE GRADING CONTRACTOR SHALL REVIEW THEIR PROPOSED GRADING SEQUENCE TO INSURE THAT THE LEAST AMOUNT OF LAND POSSIBLE AT ANY ONE TIME IS DISTURBED WITH OUT PERMANENT STABILIZATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE COMPLIANCE WITH THE N.P.D.E.S. STORMWATER REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, INSPECTION REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.

SITE PLAN NOTES:

- BOUNDARY TOPOGRAPHIC SURVEY WAS PREPARED BY WATSON KILLANE SURVEYING AND MAPPING, INC., DATED 03/30/2019.
- CONTRACTOR SHALL REFER TO PLANS BY ARCHITECT FOR EXACT LOCATIONS AND DIMENSIONS OF VESTIBULE, TOWERS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, SIDEWALKS, EXIT PORCHES, RAMPS, PRECISE BUILDING DIMENSIONS, AND EXACT BUILDING UTILITY ENTRANCE LOCATIONS.
- CONTRACTOR SHALL REFER TO PLANS BY OTHERS FOR ENTRY LOCATIONS OF ALL WATER, SEWER SERVICE, ELECTRICAL, AND TELEPHONE SERVICE. CONTRACTOR SHALL COORDINATE WITH ALL UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH THE REGULATORY AGENCY AS TO THE LOCATION AND TIE-IN LOCATIONS AND/OR CONNECTIONS TO THEIR FACILITIES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED FOR ALL SITE IMPROVEMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
- SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED. COST SHALL BE INCLUDED IN BASE BID.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL ABOVE GROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISCELLANEOUS UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
- CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND IMPROVEMENTS SHALL BE CONSTRUCTED TO THE SAME.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- ALL WORK AND MATERIAL SHALL COMPLY WITH ALL REGULATORY AGENCY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS.

SITE SPECIFIC NOTES:

- CONTRACTOR TO INCLUDE FOR ALL SECONDARY CONDUITS (CONDUIT ONLY) DEPICTED ON UTILITY PAGE IN BASE BID. INCLUDE FOR LENGTH UP POLE APPROX 30FT. WIRE IS ASSUMED TO BE BY UTILITY DEPARTMENT. SECONDARY WIRE WILL BE PROVIDED IN BID AS AN ALTERNATE PRICE IN L.F. AND HANDLED AS A CHANGE ORDER IF REQUIRED.
- CONTRACTOR TO INCLUDE TWO (2) 1" CONDUIT TO BOTH SIGN LOCATIONS.
 - ONE (1) 1" CONDUIT IS FOR ELECTRICAL.
 - ONE (1) 1" CONDUIT IS FOR COMMUNICATION.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE CAT 5 HOME-RUN BETWEEN PRICE SIGN AND FINAL DESTINATION INSIDE THE BUILDING. FINAL DESTINATION TO BE DETERMINED BY RACETRAC CONSTRUCTION MANAGER DURING CONSTRUCTION.
- CONTRACTOR TO SEE SHEET SD1 FOR AIR/VAC SERVICE STATION ELECTRICAL REQUIREMENTS.
 - CONTRACTOR TO PROVIDE SMALL CONCRETE UTILITY VAULTS FOR UTILITY JUNCTIONS. CONCRETE VAULT TO BE FLUSH WITH CONCRETE OR LANDSCAPING.
 - AIR/VAC SERVICE STATION ELECTRICAL CONDUITS TO BE 1".
 - INCLUDE A WEATHER PROOF JUNCTION BOX INSIDE OF THE CONCRETE VAULT. LEAVE THREE (3) PULL STRINGS INSIDE CONDUIT FOR FUTURE USE.

GRADING NOTES:

- TOPOGRAPHIC INFORMATION WAS TAKEN FROM A TOPOGRAPHIC SURVEY BY WATSON KILLANE SURVEYING AND MAPPING, INC., DATED 03/30/2019.
- IF CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- EXISTING CONTOURS INTERVAL IS SHOWN AT ONE FOOT (1').
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. RACETRAC PETROLEUM DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS ARE EXACT AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
- IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURE AS NECESSARY TO RETURN IT TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL UN-SURFACED AREAS IN DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR INCHES (4") OF TOPSOIL, SEED, MULCH WATER, ETC. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN AND CITY/COUNTY SPECIFICATIONS UNTIL HEALTHY STAND OF GRASS IS OBTAINED.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- ALL GRADING OPERATIONS SHALL BE STAKED BY A REGISTERED CIVIL ENGINEER OR LICENSED LAND SURVEYOR APPROVED BY THE OWNER.
- REFERENCE STRUCTURAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION AND COMPACTION.
- CONTRACTOR TO REVIEW BORING LOGS PROVIDED BY RACETRAC.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUDED TO ASSURE CONNECTION AT STRUCTURE IS WATERTIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND FOR ALL NATURAL AND PAVED AREAS.
- ALL RETAINING WALLS TO BE PROTECTED DURING BACKFILL BY CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, PROVIDING AND INSTALLING PROPER BRACING DURING BACKFILL BEING PLACES ADJACENT TO RETAINING WALLS.

STORM DRAINAGE NOTES:

- ALL PIPES ENTERING STORM SEWER STRUCTURES SHALL BE SEALED TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- REFERENCE DETAIL SHEETS FOR STORM WATER DETAILS.
- THE CONTRACTOR SHALL SUBMIT BUOYANCY CALCULATIONS ON ALL RUNS OF PIPE THAT DO NOT UTILIZE CONCRETE PIPE. BUOYANCY CALCULATIONS SHALL BE PREPARED, SIGNED, AND SEALED BY A REGISTERED ENGINEER, SHALL REPRESENT ACTUAL FIELD CONDITIONS, AND SHALL DEMONSTRATE THAT THE PIPE UTILIZED WILL NOT BECOME BUOYANT UNDER ANY CONDITIONS. THE CONTRACTOR MAY EMPLOY A TRAINING SYSTEM, DESIGNED BY A REGISTERED ENGINEER, ADEQUATE TO RESIST BUOYANT FORCES WHERE NECESSARY.

PAVING AND DRAINAGE NOTES:

- THE ENTITY THAT WILL OWN, OPERATE, AND MAINTAIN THE STORM SEWER SHOWN ON THESE PLANS IS RACETRAC PETROLEUM, INC. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THE PERMITS OBTAINED.
- THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK BALANCES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.
- PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS. ADEQUATE QUANTITY OF EXISTING MATERIALS AS FILL, DOWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFF-SITE AND MATERIALS TO BE DISPOSED OF OFF-SITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING PROPS TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFF-SITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. TO DETERMINE IF ANY OFF-SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS. THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED. A TREE REMOVAL PERMIT IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR.
- ALL FILL MATERIALS SHALL BE FREE OF MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH, OR OTHER UNSUITABLE MATTER.
- ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO STOCKPILE (NONORGANIC) FILL, STOCKPILES AND ORGANIC (MUCK) STOCKPILES. IF MUCK IS ENCOUNTERED, CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE.
- FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12' LIFTS. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTORS PAY REQUEST SUBMITTAL.
- GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER A MINIMUM OF FORTY-EIGHT(48) HOURS PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
- REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS III WITH RUBBER GASKET JOINTS. RCP SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 430-001. RUBBER GASKETS SHALL CONFORM TO SECTION 430-001.
- ALL OTHER RELATED ITEMS REQUIRED FOR THE CONSTRUCTION OF THE STORM SEWER (OUTFALL PROTECTION, POLLUTION CONTROL, ETC.) ARE TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THE CONSTRUCTION PLANS, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).
- ALL PIPE CALL OUTS ARE MEASURED CENTERLINE TO CENTERLINE FOR MANHOLES AND INLETS.
- ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH A SEED AND MULCH MIXTURE UNLESS OTHERWISE NOTED.
- ALL OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE SOODED WITH BAHIA.
- NO HARD WOOD TREES MAY BE PLANTED OVER OR WITHIN 5' OF UTILITY LINES OR STORM PIPES. ONLY SOD OR SOFT WOOD SHRUBS MAY BE PLANTED OVER UTILITY LINES
- ALL MITERED END SECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 430-022.
- PIPE CONNECTION TO EXISTING STRUCTURE SHALL BE AS FOLLOWS:
 - A THE HOLE INTO THE EXISTING STRUCTURE MUST BE SAW CUT OR CORE DRILLED.
 - USE NON-SHRINKING GROUT TO FILL ALL GAPS AROUND THE JOINT.
 - AFTER PIPE IS CONNECTED WITH THE INLET, THE END OF THE PIPE MUST BE CUT FLUSH WITH THE INSIDE SURFACE OF THE INLET.
 - REFER TO FDOT STANDARD PLAN INDEX 425-001 FOR FILTER FABRIC WRAP ON GROUDED PIPE TO STRUCTURE JOINT DETAIL.

PAVING AND STRIPING NOTES:

- STANDARD DUTY PAVEMENT AREAS SHALL BE PORTLAND CEMENT CONCRETE. DETAILS OF THE STANDARD DUTY CONCRETE PAVEMENT ARE PROVIDED ON DETAIL SHEETS.
- NOTIFY OWNER 3 DAYS PRIOR TO POUR OF INITIAL SECTION OF DRIVEWAY PAVING. RACETRAC REPRESENTATIVE TO APPROVE INITIAL POUR.
- TESTING OF MATERIALS REQUIRED FOR THE CONSTRUCTION OF THE PAVING IMPROVEMENTS SHALL BE PERFORMED BY THE OWNER. FOR TESTING MATERIALS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE, BY THE STANDARD TESTING PROCEDURES, THAT THE WORK CONSTRUCTED MEETS THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
- ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES' LATEST EDITION.
- TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD PLANS FOR ROADWAY AND BRIDGE CONSTRUCTION INDICES. THE CONTRACTOR SHALL REVIEW ALL TRAFFIC CONTROL DEVICES WITH FDOT PRIOR TO INSTALLATION.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR PARKING STALLS, HANDICAPPED PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDING.
- SEE IRRIGATION PLANS AND MEP PLANS PRIOR TO PAVING FOR LOCATION OF PROPOSED SLEEVING AND CONDUITS. EXTRA CONDUIT SHALL BE PLACED UNDER DRIVEWAYS FOR FUTURE USE.
- ALL HANDICAP RAMPING, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO THE AMERICANS WITH DISABILITIES ACT OF 1990.
- CONTRACTOR TO SUBMIT A POURING PLAN TO THE CONSTRUCTION MANAGER PRIOR TO THE BEGINNING OF ANY PAVING WORK.
- CONTRACTOR SHALL INSTALL SLAB CONSTRUCTION JOINTS AT THE END OF A DAYS POUR. SLAB CONSTRUCTION AND SLAB CONSTRUCTION JOINTS ARE TO BE INSTALLED IN ACCORDANCE WITH THE CONCRETE SPECIFICATIONS AS SHOWN ON THE RACETRAC STANDARD DETAILS, SHEETS SD3 AND SD4.
- PAVING CONTRACTOR TO COORDINATE WITH BUILDING CONTRACTOR ON THE CONSTRUCTION AND PAVING NEAR THE SCREENING WALLS AND THE DUMPSTER PADS.
- ALL DISCREPANCIES FOUND BY CONTRACTOR RELATED TO UNDERGROUND UTILITIES OR OTHER APPURTENANCES SHALL BE RESOLVED TO THE SATISFACTION OF OWNER AND ENGINEER PRIOR TO PLACEMENT OF ANY PAVING. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN SUBGRADE OF AREAS TO BE PAVED, AND NOTIFY OWNER AND ENGINEER IF ANY DISCREPANCIES ARE FOUND PRIOR TO INSTALLATION OF ANY PAVING.
- EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- ALL JOINTS SHALL EXTEND THROUGH THE CURB.
- COMPACTION SHALL BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
- ALL PAVEMENT TO BE SLOPED FOR POSITIVE DRAINAGE.

UTILITY NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. RACETRAC PETROLEUM DOES NOT GUARANTEE THAT EXISTING UTILITY LOCATIONS ARE EXACT AND THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, EASEMENTS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT. SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFER TO ARCHITECTS PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND TELEPHONE SERVICE TO BUILDING.
- SEE DETAIL SHEETS FOR BACKFILL AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE PERFORMANCE CRITERIA FOR OSHA.
- CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH AND PREVENT ANY CONFLICT OF UTILITIES.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
- SITE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES AND BUILDING CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL EXPENSES THAT RESULT FROM DELAYED OR FAILED TEST DURING ANY PHASE OF THE CONSTRUCTION PROCESS. THIS INCLUDES FEES INCURRED THROUGH RESCHEDULING OF ANY RACETRAC VENDORS OR EQUIPMENT TO ACCOMMODATE.
- ALL WATER AND SANITARY SEWER CROSSINGS TO BE PERPENDICULAR WITH A FULL STICK OF DUCTILE IRON PIPE IN THE SEWER LINES AT THE CROSSING.
- CONTRACTOR TO COORDINATE WITH SIGNAGE CONTRACTOR AND ARCHITECT FOR EXACT LOCATION OF SIGNAGE, REQUIRED ELECTRICAL CONDUITS, FOUNDATIONS, ETC.
- SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
- CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.

NO.	DATE	BY	REVISIONS
1	11/15/19	BRP	ISSUED FOR PERMITTING
2	12/10/20	CMF	REVISED PER COMMENT
3	01/29/21	CMF	REVISED PER COMMENT
4	03/02/21	CMF	REVISED PER COMMENT

THESE PLANS ARE PREPARED IN COMPLIANCE WITH FDOT (19) 620.001 (3) (b) (1)

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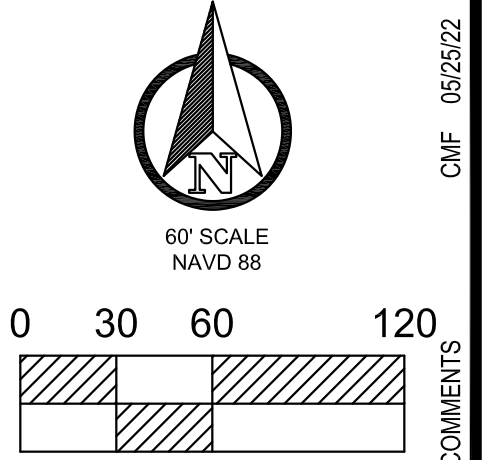
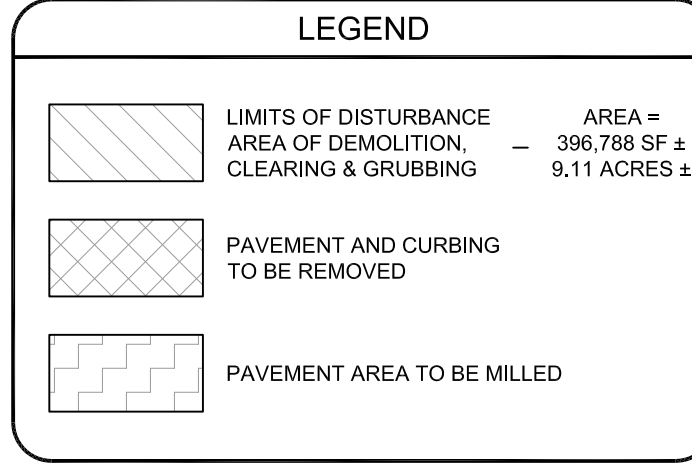
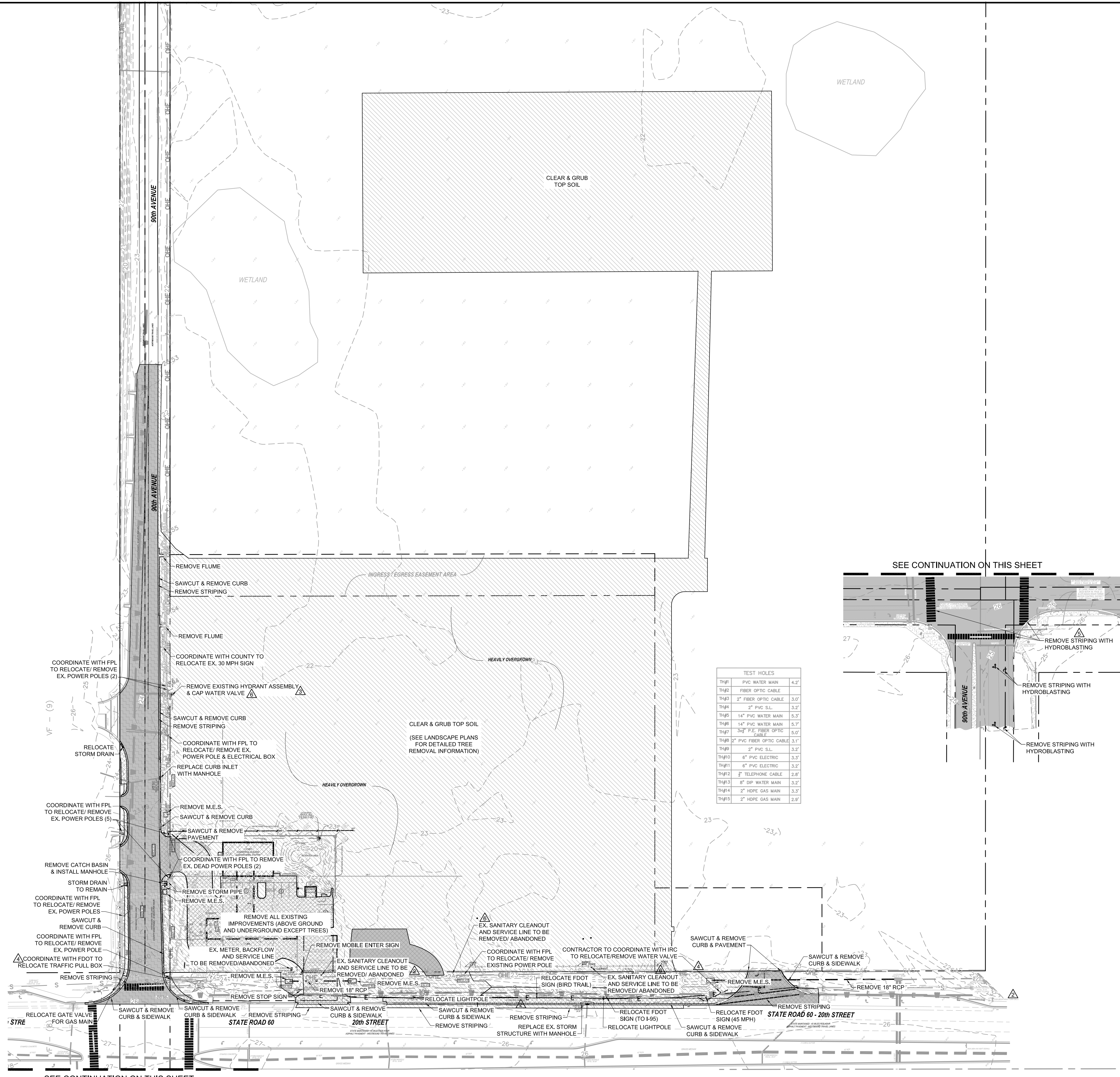
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DRAWN BY	CMF
DATE	07/01/19
SCALE	NTS
PROJECT NUMBER:	024-108
GR	4
SHEET NO.	VERSION





- DEMOLITION NOTES:**
- CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE & PROPERLY DISPOSE OF ALL DEMOLITION MATERIALS. DEMO CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
 - THE LOCATIONS, ELEVATIONS, & THE DIMENSIONS OF EXISTING UTILITIES & OTHER FEATURES ARE SHOWN ON THE PLANS ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PLAN PREPARATION. THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, & THE DIMENSIONS OF ALL EXISTING UTILITIES & OTHER FEATURES AFFECTING THE WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES WHICH MAY AFFECT THE PROPOSED WORK.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF THE BUILDINGS. THE CONTRACTOR SHALL LOCATE ALL UNDERGROUND UTILITIES BEFORE EXCAVATION. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
 - THE CONTRACTOR SHALL, PRIOR TO INITIATION OF ANY SITE CLEARING OR OTHER CONSTRUCTION ACTIVITIES, INSTALL SILT SCREENS DOWNSTREAM OF ALL AREAS WHICH HAVE POTENTIAL OF EROSION OR SEDIMENT TRANSPORT OFF-SITE OR TO WATER BODIES. THE CONTRACTOR SHALL IMPLEMENT OTHER STRUCTURAL EROSION CONTROL MEASURES IF REQUIRED TO PREVENT SEDIMENT TRANSPORT TO OFF-SITE AREAS & WATER BODIES.
 - ALL TRASH, DEBRIS, & OTHER MATERIAL REMOVED FROM THE SITE SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL REGULATIONS.
 - ANY EXCAVATED TRENCHES ARE TO BE BACKFILLED WITH CLEAN SAND COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR MAXIMUM DRY DENSITY VALUE (AASHTO T-180). REFER TO GEOTECHNICAL REPORT FOR SPECIFIC COMPACTION REQUIREMENTS UNDER BUILDING & OTHER STRUCTURES.
 - ALL EXISTING CONCRETE TO BE REMOVED SHALL BE SAWCUT & REMOVED @ THE FIRST AVAILABLE GOOD JOINT & REPLACED TO MATCH EXISTING. LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED.
 - THE CONTRACTOR SHALL CONTACT THE GAS UTILITY FOR LOCATION BEFORE EXCAVATION. CHAPTER 17-153 F.S. REQUIRED THAT AN EXCAVATOR NOTICES ALL GAS UTILITIES AT LEAST TWO DAYS PRIOR TO EXCAVATING. ALSO CALL 1-800-432-4770 FOR SUNSHINE LOCATES. F.S. 556.101 THROUGH 111.
 - THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, COMPACTED FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
 - ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE T.V. SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED ON THE PLANS.
 - ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER.
 - ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED.
 - EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
 - CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
 - CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE NOTED.
 - IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
 - SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTORS EXPENSE.
 - THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.
 - REFER TO SURVEY FOR LIMITS AND BOUNDARY OF PROPERTY.

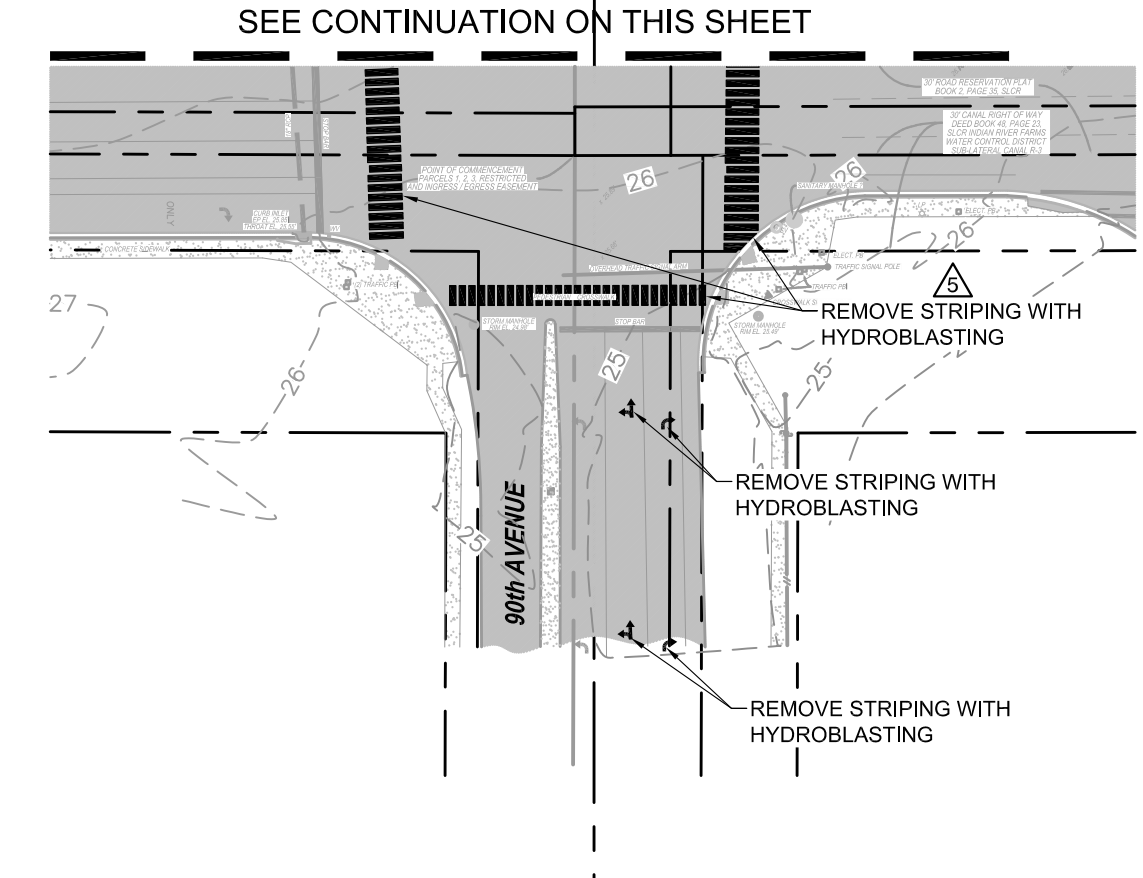
- GENERAL DEMOLITION SPECIFICATIONS:**
- CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSE WILL BE MAINTAINED BY OWNER AS FAR AS PRACTICAL.
 - MAINTAIN EXISTING UTILITIES INDICATED TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING DEMOLITION OPERATIONS.
 - DRAIN, PURGE, OR OTHERWISE REMOVE, COLLECT, AND DISPOSE OF CHEMICALS, GASES, EXPLOSIVES, ACIDS, FLAMMABLES OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS ACCORDING TO APPLICABLE CODES OR REGULATIONS.
 - EMPLOY A CERTIFIED, LICENSED EXTERMINATOR TO TREAT BUILDING AND TO CONTROL RODENTS AND VERMIN BEFORE AND DURING DEMOLITION OPERATIONS.
 - DO NOT CLOSE OR OBSTRUCT STREETS, WALKS, OR OTHER ADJACENT OCCUPIED OR USED FACILITIES WITHOUT PERMISSION FROM OWNER AND AUTHORITIES HAVING JURISDICTION. PROVIDE ALTERNATE ROUTES AROUND CLOSED OR OBSTRUCTED TRAFFIC WAYS IF REQUIRED BY GOVERNING REGULATIONS. PROVIDE ALTERNATE ROUTES AND SIGNAGE FOR SIDEWALKS ON 20TH STREET & 90TH AVENUE, DURING THE DEMOLITION AND RECONSTRUCTION OF THE SIDEWALK.
 - DO NOT CREATE HAZARDOUS OR OBJECTIONABLE CONDITIONS, SUCH AS ICE, FLOODING, AND POLLUTION, WHEN USING WATER. REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
 - REMOVE DEBRIS FROM ELEVATED PORTIONS OF BUILDING BY CHUTE, HOIST, OR OTHER DEVICE THAT WILL CONVEY DEBRIS TO GRADE LEVEL.
 - PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
 - DO NOT BURN DEMOLISHED MATERIALS.

- SPILL PREVENTION CONTROLS AND COUNTERMEASURES:**
- I. MATERIALS MANAGEMENT**
- GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING MEASURES WILL BE FOLLOWED ON-SITE DURING CONSTRUCTION.
- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 - ALL MATERIALS ON-SITE WILL BE STORED IN A NEAT AND ORDERLY MANNER, IN APPROPRIATE CONTAINERS, AND UNDER A ROOF OR COVER IF POSSIBLE.
 - PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THEIR ORIGINAL LABELS.
 - SUBSTANCES WILL NOT BE MIXED UNLESS RECOMMENDED BY THE MANUFACTURERS.
 - WHENEVER POSSIBLE, PRODUCTS WILL BE COMPLETELY USED BEFORE DISCARDING THE CONTAINERS.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED AND MATERIALS SAFETY DATA SHEETS (MSDS) WILL BE MAINTAINED ON-SITE.
 - THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR ENSURING ADHERENCE TO GOOD HOUSEKEEPING MEASURES.
- PETROLEUM PRODUCTS:** ALL ON-SITE VEHICLES AND EQUIPMENT WILL BE MONITORED FOR LEAKS. PETROLEUM PRODUCTS WILL BE STORED PROPERLY ON-SITE. ASPHALT SUBSTANCES WILL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. REFUELING OF EQUIPMENT AND VEHICLES ON-SITE WILL BE MINIMIZED AND EXTRAORDINARY CARE WILL BE UTILIZED IF REFUELING IS NECESSARY.
- II. SPILL CONTROL PRACTICES**
- IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES, THE FOLLOWING SPILL CONTROL MEASURES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.
- MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE KEPT IN ANY MATERIAL STORAGE AREAS OR ON-SITE CONSTRUCTION OFFICES OR TRAILERS. THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR MAKING ON-SITE PERSONNEL AND SUBCONTRACTORS AWARE OF THE MANUFACTURER'S LITERATURE AND ALL OF THE SPILL CONTROL PRACTICES.
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS OR ON-SITE CONSTRUCTION OFFICES OR TRAILERS. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, ABSORBENT GRANULES, SAND OR SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS.
 - ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 - THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY.
 - SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR COUNTY GOVERNMENT AGENCY.
 - THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT SPILLS FROM REOCCURRING. A DESCRIPTION OF SPILLS WHICH DO OCCUR WILL INCLUDE WHAT CAUSED THE SPILL, WHEN IT OCCURRED, THE NATURE OF THE SPILL, AND HOW IT WAS CLEANED UP.

GEOTECHNICAL NOTE:

THE GEOTECH NEEDS TO BE PRESENT TO ENSURE THE REPLACEMENT OF ROW SOIL MEETS DRAINAGE DESIGN CRITERIA.

TEST HOLES		
TH#1	PVC WATER MAIN	4.2'
TH#2	FIBER OPTIC CABLE	3.0'
TH#3	2" PVC S.L.	3.2'
TH#4	14" PVC WATER MAIN	5.3'
TH#5	14" PVC WATER MAIN	5.7'
TH#6	3/4" P.E. FIBER OPTIC CABLE	5.0'
TH#7	2" PVC FIBER OPTIC CABLE	3.1'
TH#8	2" PVC S.L.	3.2'
TH#9	6" PVC ELECTRIC	3.3'
TH#10	6" PVC ELECTRIC	3.2'
TH#11	2" TELEPHONE CABLE	2.8'
TH#12	8" TOP WATER MAIN	3.2'
TH#13	2" HOPE GAS MAIN	3.3'
TH#14	2" HOPE GAS MAIN	3.3'
TH#15	2" HOPE GAS MAIN	2.9'



SEE CONTINUATION ON THIS SHEET

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.



REVISED PER COUNTY COMMENTS

CMF	04/04/21	REVISED PER UTILITY COMMENTS
CMF	10/29/21	REVISED PER FOOT COMMENTS
CMF	03/30/21	REVISED PER FOOT COMMENTS
CMF	11/20/20	REVISED PER COMMENTS
CMF	10/31/20	REVISED PER COMMENTS
SCF	05/11/20	REVISED PER COMMENTS
BRP	11/19/19	ISSUED FOR PERMITTING
BY	DATE	REVISIONS
NO.		

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
PAGE 10 OF 10 (SECTION 910)

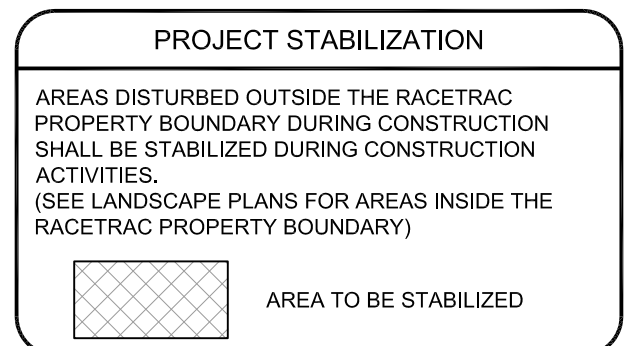
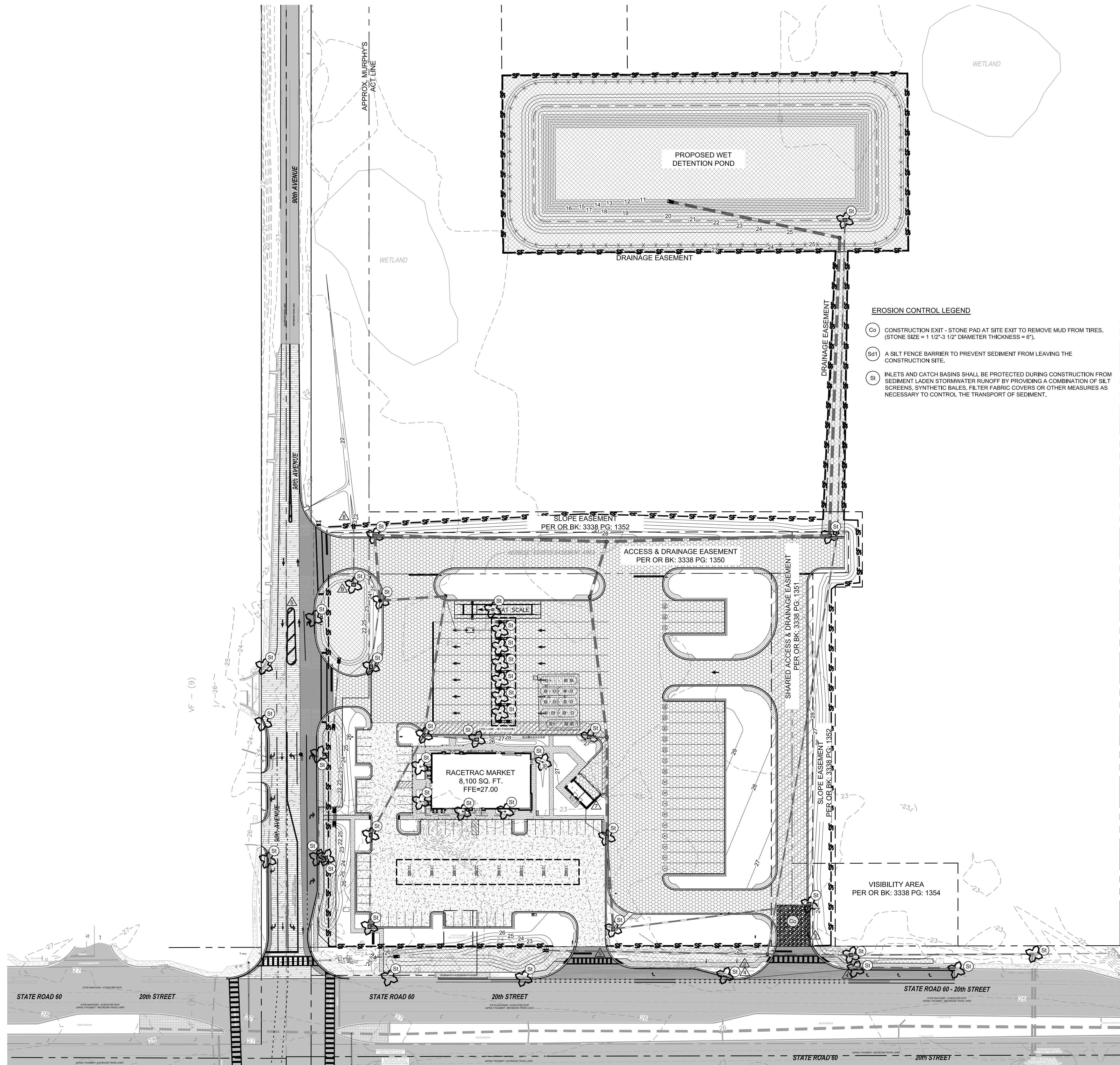
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Racetrac

DEMOLITION PLAN
RACETRAC #1422 - VERO BEACH
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY: CMF
DATE: 07/01/19
SCALE: 1" = 60'
PROJECT NUMBER: 024-108
SHEET NO. C-1.0
VERSION 7



EROSION CONTROLS FOR NON STORMWATER DISCHARGES:

A) WASTE DISPOSAL:
 ALL WASTE MATERIAL WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER WHICH WILL BE MAINTAINED BY A LICENSED SOLID WASTE MANAGEMENT COMPANY IN INDIAN RIVER COUNTY. THE DUMPSTER WILL MEET ALL LOCAL, STATE AND FEDERAL REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPLOYED AT LEAST TWICE A WEEK OR MORE OFTEN IF NECESSARY. THE TRASH WILL BE HAULED TO AN APPROVED INDIAN RIVER COUNTY LANDFILL. NO CONSTRUCTION WASTE WILL BE BURIED ON-SITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED AT THE SUPERINTENDENT CONSTRUCTION TRAILER. THE INDIVIDUAL RESPONSIBLE FOR MANAGING THIS TASK WILL BE IDENTIFIED BY THE CONTRACTOR.

B) OFFSITE VEHICLE TRACKING:
 A GRAVEL CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE SWEEP DAILY TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARP/AULIN.

SPILL PREVENTION CONTROLS AND COUNTERMEASURES:

I. MATERIALS MANAGEMENT
GOOD HOUSEKEEPING: THE FOLLOWING GOOD HOUSEKEEPING MEASURES WILL BE FOLLOWED ON-SITE DURING CONSTRUCTION.
 • AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
 • ALL MATERIALS ON-SITE WILL BE STORED IN A NEAT AND ORDERLY MANNER IN APPROPRIATE CONTAINERS, AND UNDER A ROOF OR COVER IF POSSIBLE.
 • PRODUCTS WILL BE KEPT IN THEIR ORIGINAL CONTAINERS WITH THEIR ORIGINAL LABELS.
 • SUBSTANCES WILL NOT BE MIXED UNLESS RECOMMENDED BY THE MANUFACTURERS.
 • WHENEVER POSSIBLE, PRODUCTS WILL BE COMPLETELY USED BEFORE DISCARDING THE CONTAINERS.
 • MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED AND MATERIALS SAFETY DATA SHEETS (MSDS) WILL BE MAINTAINED ON-SITE.
 • THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR ENSURING ADHERENCE TO GOOD HOUSEKEEPING MEASURES.
PETROLEUM PRODUCTS: ALL ON-SITE VEHICLES AND EQUIPMENT WILL BE MONITORED FOR LEAKS. PETROLEUM PRODUCTS WILL BE STORED PROPERLY ON-SITE. ASPHALT SUBSTANCES WILL BE APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. REFUELING OF EQUIPMENT AND VEHICLES ON-SITE WILL BE MINIMIZED AND EXTRAORDINARY CARE WILL BE UTILIZED IF REFUELING IS NECESSARY.

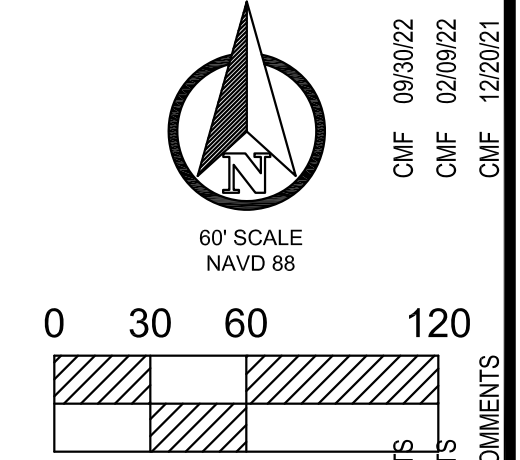
II. SPILL CONTROL PRACTICES

IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES, THE FOLLOWING SPILL CONTROL MEASURES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.
 • MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE KEPT IN ANY MATERIAL STORAGE AREAS OR ON-SITE CONSTRUCTION OFFICES OR TRAILERS. THE SITE SUPERINTENDENT WILL BE RESPONSIBLE FOR MAKING ON-SITE PERSONNEL AND SUBCONTRACTORS AWARE OF THE MANUFACTURER'S LITERATURE AND ALL OF THE SPILL CONTROL PRACTICES.
 • MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREAS OR ON-SITE CONSTRUCTION OFFICES OR TRAILERS. EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, ABSORBENT GRANULES, SAND OR SAWDUST, AND PLASTIC OR METAL TRASH CONTAINERS.
 • ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
 • THE SPILL AREAS WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY.
 • SPILLS OF TOXIC OR HAZARDOUS MATERIALS WILL BE REPORTED TO THE APPROPRIATE STATE OR CITY GOVERNMENT AGENCY.
 • THE SPILL PREVENTION PLAN SHALL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT SPILLS FROM REOCCURRING. A DESCRIPTION OF SPILLS WHICH DO OCCUR WILL INCLUDE WHAT CAUSED THE SPILL, WHEN IT OCCURRED, THE NATURE OF THE SPILL, AND HOW IT WAS CLEANED UP.

EROSION CONTROL NOTES:
 1. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE & LOCAL CODES, ORDINANCES & REGULATIONS GOVERNING POLLUTION OF THE ENVIRONMENT & SHALL IMPLEMENT ALL MEASURES NEEDED TO ENSURE ADEQUATE EROSION & SEDIMENT CONTROL DURING THE ENTIRE DURATION OF CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES SHALL CONFORM TO INDIAN RIVER COUNTY, SAINT JOHNS RIVER FLORIDA WATER MANAGEMENT DISTRICT, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, & FLORIDA DEPARTMENT OF TRANSPORTATION REQUIREMENTS. INSTALLATION OF SILT FENCES & TURBIDITY BARRIERS SHALL BE IN ACCORDANCE WITH FOOT STANDARD PLANS FOR ROADWAY & BRIDGE CONSTRUCTION INDICES, LATEST EDITION.
 2. SEE SHEET C-7.0 FOR EROSION CONTROL DETAILS.
 3. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. EROSION & SEDIMENT CONTROL MEASURES ARE TO BE APPLIED AS A PERIMETER DEFENSE AGAINST THE TRANSPORTATION OF SILT & SEDIMENTS OFF THE PROJECT SITE OR INTO ADJACENT WATER BODIES OR WETLANDS.
 4. THE CONTRACTOR SHALL PREPARE & IMPLEMENT AN EROSION CONTROL PLAN AS PART OF THE SCOPE OF WORK COVERED BY THESE PLANS. THE CONTRACTOR SHALL USE THE BEST MANAGEMENT PRACTICES IN CONTROLLING EROSION & SEDIMENT TRANSPORT DURING CONSTRUCTION. THE FLORIDA DEVELOPMENT MANUAL "A GUIDE TO SOUND LAND & WATER MANAGEMENT" MAY BE USED AS REFERENCE FOR RECOMMENDED BEST MANAGEMENT PRACTICES RELATED TO EROSION & SEDIMENT CONTROL.
 5. THE CONTRACTOR SHALL SUBMIT THE EROSION CONTROL PLAN TO THE OWNER FOR APPROVAL PRIOR TO THE PRE-CONSTRUCTION MEETING.
 6. ALL EROSION & SEDIMENT CONTROL MEASURES WHICH ARE NECESSARY TO LIMIT THE TRANSPORT OF SILTS & SEDIMENTS TO OUTSIDE THE LIMITS OF THE WORK AREA OR TO WATER BODIES OR WETLANDS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE BEST MANAGEMENT PRACTICES & IMPLEMENT STRUCTURAL MEASURES AS NEEDED TO PREVENT EROSION & SEDIMENT TRANSPORT FROM THE WORK AREAS. THE FOLLOWING ARE MINIMUM RECOMMENDED GUIDELINES TO BE IMPLEMENTED DURING THE CONSTRUCTION AS PART OF THE EROSION & SEDIMENT CONTROL PLAN:
 A. STOCKPILING OF 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.
 B. EXPOSED AREA LIMITATION & PROTECTION
 THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING & GRUBBING OPERATIONS OR EXCAVATION & FILLING OPERATIONS SHALL BE LIMITED AS NEEDED TO MINIMIZE THE POTENTIAL OF OFF-SITE SEDIMENT TRANSPORT. ALL EXPOSED AREAS SHALL BE PROTECTED BY INSTALLING EFFECTIVE EROSION & SEDIMENT CONTROL MEASURES SUCH AS SILT SCREENS, SYNTHETIC BALES, TURBIDITY BARRIERS, SWALES, OR A COMBINATION OF THESE & OTHER MEASURES AS WARRANTED.
 C. INLET PROTECTION
 INLETS & CATCH BASINS SHALL BE PROTECTED DURING CONSTRUCTION FROM SEDIMENT LADEEN STORMWATER RUNOFF BY PROVIDING A COMBINATION OF SILT SCREENS, SYNTHETIC BALES, FILTER FABRIC COVERS OR OTHER MEASURES AS NECESSARY TO CONTROL THE TRANSPORT OF SEDIMENT.
 D. TEMPORARY GRASSING
 AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. SLOPES STEEPER THAN 8:1 SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES OF LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDED AREA TO A DEPTH OF 4 INCHES. THE SEEDED OR SEEDED & MULCHED AREAS SHALL BE ROLLED & WATERED AS NEEDED TO ENSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER. IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% OF GOOD GRASS COVER, THE AREAS WILL BE REWORKED & ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER. REWORKED & ADDITIONAL SEED APPLIED.
 E. MAINTENANCE
 EROSION & SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED DURING THE ENTIRE DURATION OF CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION & CONTROL MEASURES ON A WEEKLY BASIS & 24 HOURS FOLLOWING RAINFALL EVENTS (0.5" OR GREATER) & IMMEDIATELY REPAIR ANY OBSERVED DAMAGED CONTROLS. ALL EROSION & SEDIMENT CONTROLS SHALL BE MAINTAINED AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
 7. APPROXIMATE SLOPES AFTER MAJOR GRADING VARIES BETWEEN 0.8% TO 2%; MAXIMUM SLOPES ARE FOUND AT THE DRIVEWAY & THEY RANGE BETWEEN 1% TO 6%.
 8. AREAS OF SOILS DISTURBANCE IS LIMITED TO THE AREA WITHIN THE SILT FENCE LIMITS AS SHOWN ON THIS PLAN.
 9. NO AREAS WILL BE UNDISTURBED WITHIN THE PROJECT SITE. THE ENTIRE SITE WILL BE CLEARED. ALL PERVIOUS AREAS WILL BE SEEDED & SODDED, UNLESS OTHERWISE NOTED.
 10. NO WETLANDS & SURFACE WATERS EXIST ON THIS PROJECT.

EROSION CONTROL LEGEND

- (Co) CONSTRUCTION EXIT - STONE PAD AT SITE EXIT TO REMOVE MUD FROM TIRES. (STONE SIZE = 1 1/2" - 3 1/2" DIAMETER THICKNESS = 6").
- (Sf) A SILT FENCE BARRIER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE.
- (St) INLETS AND CATCH BASINS SHALL BE PROTECTED DURING CONSTRUCTION FROM SEDIMENT LADEEN STORMWATER RUNOFF BY PROVIDING A COMBINATION OF SILT SCREENS, SYNTHETIC BALES, FILTER FABRIC COVERS OR OTHER MEASURES AS NECESSARY TO CONTROL THE TRANSPORT OF SEDIMENT.



CMF	09/30/22	REVISIONS	DATE
CMF	02/09/22		
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CMF	07/27/21	REVISIONS	DATE
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CMF	02/20/19		

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 (FAC 19D-30.003(8))

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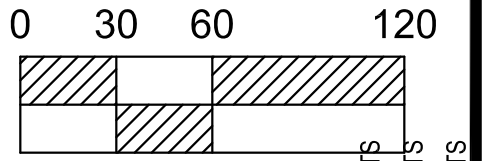
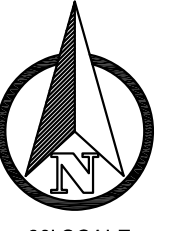
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EROSION CONTROL PLAN
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 60'
PROJECT NUMBER:	024-108
C-1.1	9
SHEET NO.	VERSION



CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

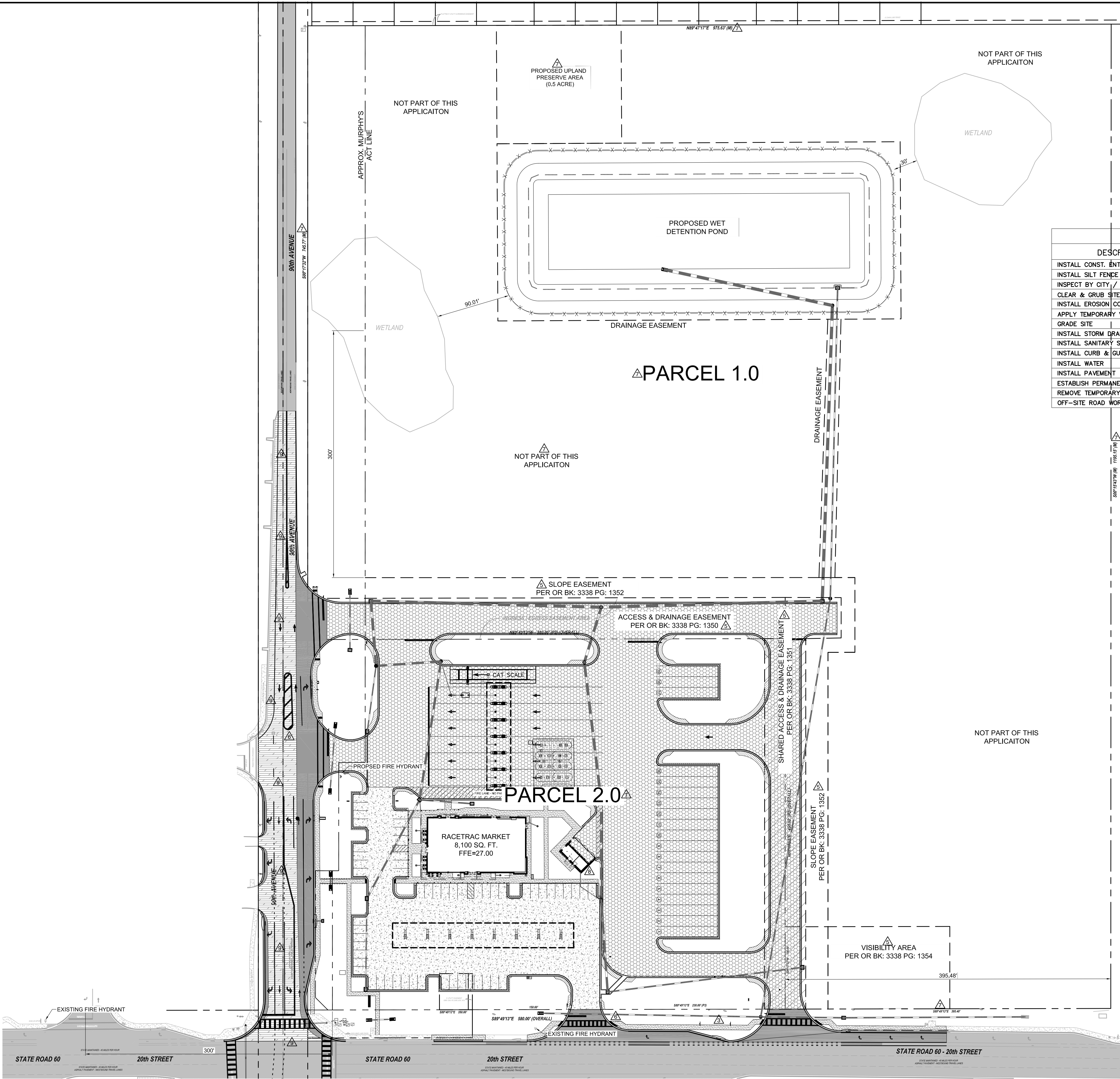


WETLAND PERIMETER	EAST WETLAND	WEST WETLAND
BUFFER REQUIRED	636.7 FT	510.4 FT
BUFFER PROVIDED	6,367 SFT	5,104 SFT

SCF	04/29/22
CMF	12/20/21
CMF	07/27/21
CMF	05/19/21
CMF	03/30/21
CMF	12/10/20
CMF	11/20/20
SCF	10/31/20
SCF	10/31/20
BRP	11/15/19
BY	DATE

DESCRIPTION	EROSION & CONSTRUCTION SCHEDULE 2022												
	MONTH	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
DAY	1	15	30	1	15	30	1	15	30	1	15	30	1
INSTALL CONST. ENTRANCE													
INSTALL SILT FENCE													
INSPECT BY CITY / OR COUNTY													
CLEAR & GRUB SITE													
INSTALL EROSION CONTROL STRUCTURES													
APPLY TEMPORARY VEGETATION, MULCH & GRAVEL													
GRADE SITE													
INSTALL STORM DRAIN SEWER													
INSTALL SANITARY SEWER													
INSTALL CURB & GUTTER													
INSTALL WATER													
INSTALL PAVEMENT													
ESTABLISH PERMANENT VEGETATION													
REMOVE TEMPORARY EROSION CONTROL STRUCTURES													
OFF-SITE ROAD WORK													

FDOT CLEAR ZONE
 BASED ON ROADWAY DESIGN SPEEDS FOR SR 60 AND 90TH AVE, THE CLEAR ZONE REQUIREMENT IS 18' FOR RURAL SECTIONS AND 4' FOR CURBED SECTIONS.



CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

TANNATH DESIGN, INC.
 2484 ROSE SPRING DRIVE
 ORLANDO, FLORIDA 32825
 (407) 982-9878
 www.tannathdesign.com
 FL. REG. #5461

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 SECTION 905.02, F.S.
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Racetrac
 RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

MASTER SITE PLAN
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY CMF
 DATE 07/14/20
 SCALE 1" = 60'
 PROJECT NUMBER: 024-108
C-2.0 8
 SHEET NO. VERSION



FEE IN-LIEU BASED ON APPRAISED VALUE OF ADJACENT LAND BY PRICE PER SF & THE DIFFERENCE REQUIRED, PER SECTION 92.05 PARAGRAPH 3.

SELLERS ADJACENT PROPERTY: 20.78 ACRES VALUED \$2,770,285
 FEE IN-LIEU = \$336 / SF DIFFERENCE OF 19,253.50 SF. CURRENTLY SHOWN ON THE PLAN.

THE DEVELOPER SHALL PROVIDE COUNTY STAFF WITH AN INDEPENDENT CERTIFIED MEMBER APPRAISAL INSTITUTE, MAI APPRAISAL OF CURRENT PER-ACRE FAIR MARKET VALUE OF THE AREA THAT WOULD OTHERWISE HAVE BEEN SET-ASIDE.

CODE	DESCRIPTION	ACRES	AREA	TYPE
140	COMMERCIAL & SERVICES	0.78	33,976.8	NON PROTECTED
411	PINE FLATWOODS	2.4	104,544.0	PROTECTED
423	MELALEUCA	0.91	39,639.6	NON PROTECTED
434	HARDWOOD CONIFER MIXED	3.86	169,012.8	PROTECTED
530	RESERVOIRS	0.11	4,791.6	NON PROTECTED
740	DISTURBED LANDS	2.97	129,373.2	NON PROTECTED
TOTALS		11.05	481,338.0	

LAND TYPE	ACRES	AREA (SF)	15% REQUIRED	PROVIDED
NON PROTECTED	4.77	207,781.20		
PROTECTED	6.28	273,556.80	41,033.50	21,780.00
GRAND TOTAL	11.05	481,338.00		

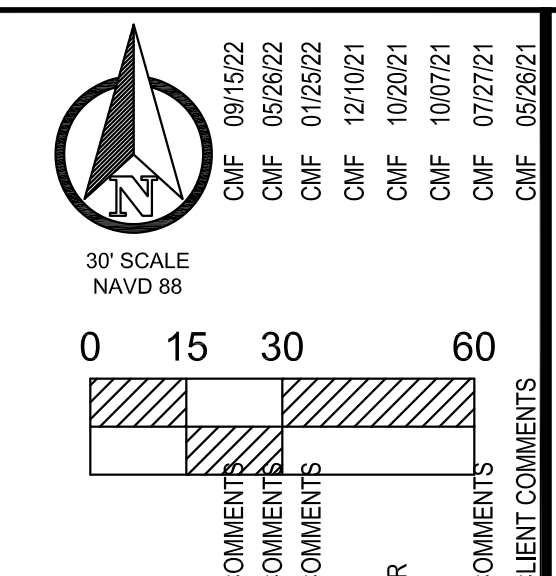
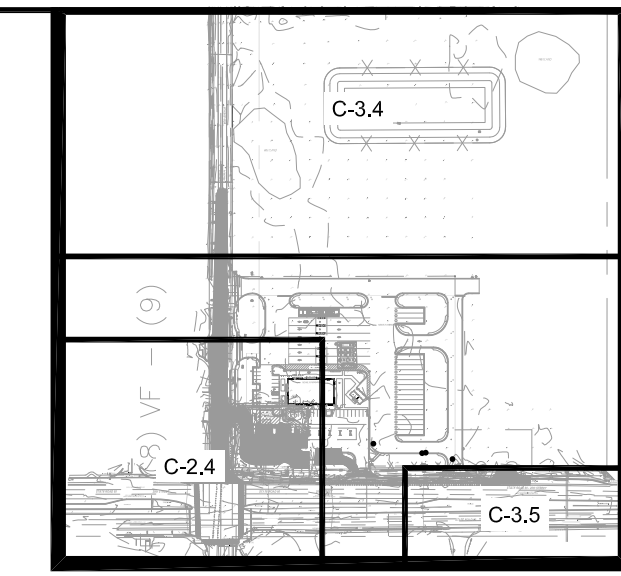
NOTES: LAND USE DESIGNATIONS AND AREAS ARE SHOWN FOR REFERENCE ONLY.
 SEE ENVIRONMENTAL ASSESSMENT REPORT FOR ADDITIONAL INFORMATION.

LAND USE	ITE CODE	INTENSITY	DAILY TRIPS	AM PEAK HOUR		PM PEAK HOUR	
				ENTER	EXIT	ENTER	EXIT
TRUCK STOP	950	6 VFP	502	22	21	25	25
SUPER CONVENIENCE MARKET / GAS STATION	960	16 VFP	3,688	225	224	184	183
NET NEW DRIVEWAY VOLUMES			4,190	247	245	209	208

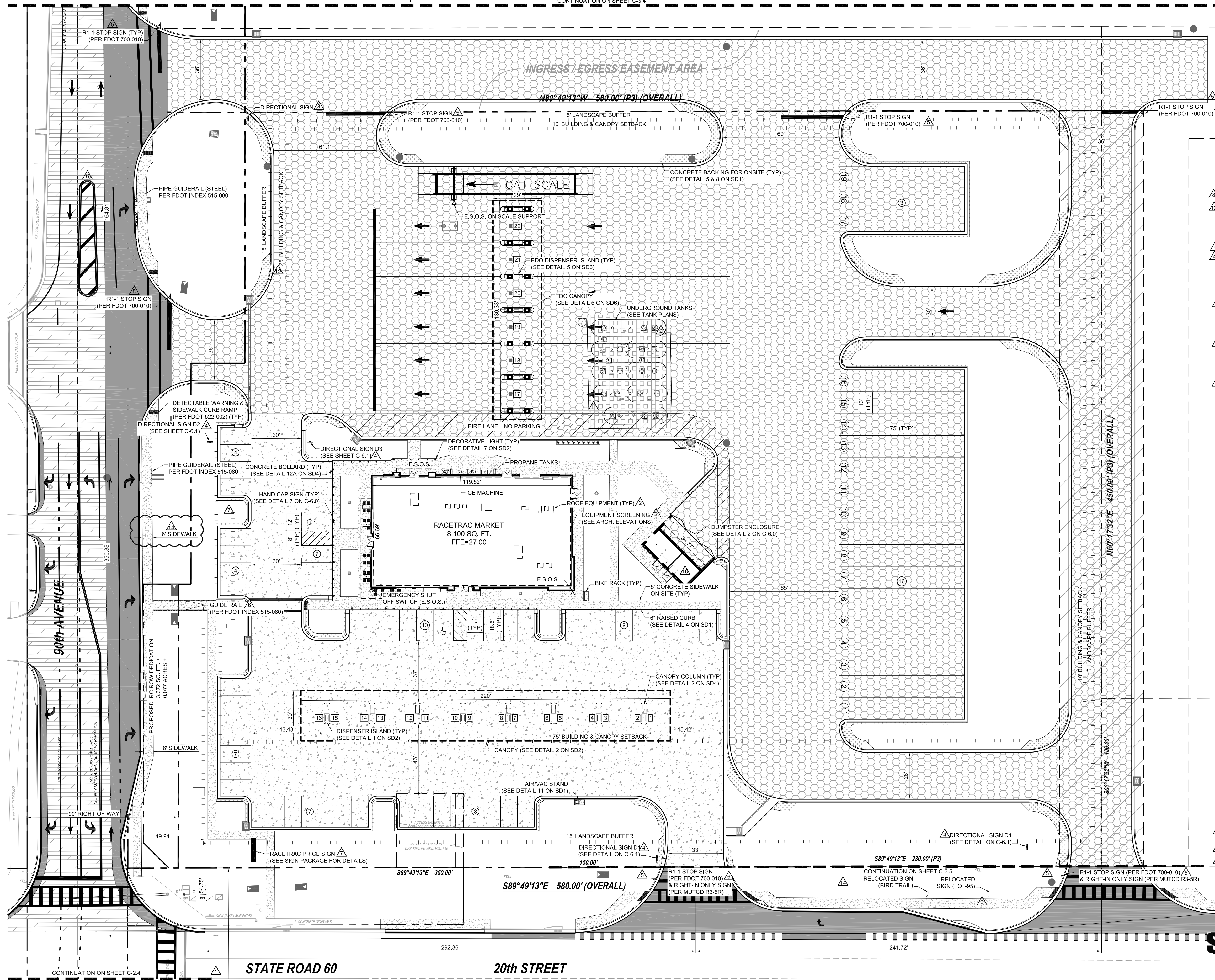
PARKING REQUIRED
 C-STORE 1 SPACE PER 150 SQ FT OF GROSS FLOOR AREA 54 SPACES
 TOTAL PARKING REQUIRED 54 SPACES

PARKING PROVIDED
 SEMI PARKING SPACES 19 SPACES
 STANDARD PARKING SPACES 54 SPACES
 HANDICAPPED PARKING SPACES 2 SPACES
 TOTAL PARKING PROVIDED 75 SPACES

STORMWATER MANAGEMENT:
 STORMWATER FACILITIES SHALL BE DESIGNED AND PERMITTED IN ACCORDANCE WITH INDIAN RIVER COUNTY AND ST. JOHNS RIVER WATER MANAGEMENT DISTRICT.



NO.	REVISIONS	DATE
CMF 05/19/21	REVISED PER FOOT COMMENTS	
CMF 03/30/21	REVISED PER FOOT COMMENTS	
CMF 12/10/20	REVISED PER COMMENTS	
CMF 11/20/20	REVISED PER COMMENTS	
SCP 10/31/20	REVISED PER COMMENTS	
CMF 05/11/20	REVISED PER COMMENTS	
BRP 11/15/19	ISSUED FOR PERMITTING	



SITE DATA
 PROPERTY LOCATION: 8980 & 8990 20TH STREET
 PARCEL ID: 33-38-02-00001-0050-00002.0
 LOCAL MUNICIPALITY: INDIAN RIVER COUNTY
 FUTURE LAND USE: COMMERCIAL/ INDUSTRIAL (C1)
 CURRENT ZONING: GENERAL COMMERCIAL (CG) & SR 60 CORRIDOR
 PROPOSED USE: GAS STATION WITH CONVENIENCE MARKET

OVERALL RACETRAC SITE: 5.99 ACRES
 LESS ROW DEDICATION: -0.47 ACRES
 NET RACETRAC SITE: 5.52 ACRES

NET RACETRAC SITE: 5.52 ACRES
 OFF-SITE AREA: +2.33 ACRES
 TOTAL AREA OF DEVELOPMENT: 7.85 ACRES

OFF-SITE DETENTION EASEMENT AREA: 2.33 ACRES
 OFF-SITE POND SURFACE AREA: 1.37 ACRES
 OFF-SITE POND DIMENSION: 167.2' X 441.77'

BUILDING AREA: 8,100 SQ FT
 IMPERVIOUS SURFACE RATIO: 179,834.1 / 242,231.8 = .7424

MAXIMUM FAR: .35
 PROPOSED FAR: .033
 MAXIMUM BUILDING COVERAGE: 40%
 PROPOSED BUILDING COVERAGE: 3.3%
 MINIMUM OPEN SPACE: 25%
 PROPOSED OPEN SPACE: 25.76%

BUILDING SETBACKS	MINIMUM	PROPOSED	MINIMUM CANOPY	PROPOSED AUTO	PROPOSED DIESEL
FRONT (WEST)	25'	107.2'	25'	73.1'	147.7'
SIDE (NORTH)	10'	216.7'	10'	344.5'	52.9'
FRONT (SOUTH)	75'	165.0'	75'	75.0'	266.8'
REAR (EAST)	10'	237.8'	10'	256.9'	333.5'

LANDSCAPE BUFFERS	MINIMUM	PROPOSED
FRONT (WEST)	15'	30'
SIDE (NORTH)	5'	30'
FRONT (SOUTH)	15'	15'
REAR (EAST)	5'	59.5'

BUILDING HEIGHT	MAXIMUM	PROPOSED
	35'	23'

SOILS
 SOIL NUMBER 6 NAME OLDSMAR USDA TEXTURE FINE SAND HYDROLOGIC GROUP AID
 SOILS DATA FROM USDA NRCS ONLINE SOILS SURVEY DATED SEPTEMBER 13, 2018

FLOOD ZONE
 THE SITE IS LOCATED IN FLOOD ZONE X, NOT A SPECIAL FLOOD AREA, PER FEMA F.I.R.M. PANEL 12061C0220.H, DATED DECEMBER 04, 2012, INDIAN RIVER COUNTY, FLORIDA.

WETLANDS
 THERE ARE NO WETLANDS LOCATED ON THE PROPERTY.

VEGETATION
 THE SITE IS CURRENTLY A NON-OPERATIONAL EXISTING GAS STATION & CONVENIENCE STORE.

- GENERAL SITE NOTES:**
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS.
 - THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE DRIVEWAY AND ROW UTILIZATION PERMIT FROM INDIAN RIVER COUNTY PUBLIC WORKS FOR 90TH AVENUE AND FDOT FOR SR 60 PRIOR TO THE START OF CONSTRUCTION.
 - ALL CURB DIMENSION ARE FROM THE FACE OF GUTTER. ALL BUILDING DIMENSIONS ARE TO THE FACE OF STRUCTURAL CMU.
 - ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
 - ALL EXISTING UTILITIES SHALL BE FIELD VERIFIED AT ALL POINTS OF CONNECTION AND AREAS OF CONFLICT.
 - ALL PUBLIC IMPROVEMENTS, INCLUDING ADJACENT SIDEWALKS, WILL BE CHECKED AT FINAL INSPECTION. ANY DAMAGED, BROKEN, OR CRACKED SECTIONS SHALL BE REPLACED PRIOR TO ISSUANCE OF CERTIFICATIONS OF OCCUPANCY.
 - ALL CONSTRUCTION SHALL MEET INDIAN RIVER COUNTY REQUIREMENTS.
 - ALL SITE IMPROVEMENTS SHALL CONFORM TO A.D.A AND FLORIDA ACCESSIBILITY CODE.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE NOTIFICATION, LOCATION AND PROTECTION OF ALL UTILITIES THAT MAY EXIST WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOTIFY SUNSHINE LOCATORS FORTY-EIGHT (48) HOURS PRIOR TO BEGINNING CONSTRUCTION AT 1-800-432-4770, MONDAY THROUGH FRIDAY 7:00 AM TO 4:30 PM.
 - CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF TOWERS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, AND UTILITY ENTRANCES.
 - EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED PER PLANS. ALL COST SHALL BE INCLUDED IN BASE BID.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED PER PLANS.
 - CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
 - ALL CONSTRUCTION MATERIAL AND METHODS, SHALL MEET THE CURRENT EDITIONS OF THE DESIGN STANDARDS, THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMMODATION MANUAL.
 - ALL DISTURBED AREAS WITHIN THE FDOT RIGHT OF WAY SHALL BE GRADED AND SODDED WITH ARGENTINE BAHIA SOD.
 - ALL STRIPING WITHIN THE FDOT RIGHT OF WAY SHALL BE LEAD-FREE THERMOPLASTIC.
 - ALL MAINTENANCE OF TRAFFIC SHALL ADHERE TO THE REQUIREMENTS OF THE DESIGN STANDARDS 102-600 INDEXES.
 - ALL NUISANCE EXOTIC VEGETATION EXISTING WITHIN DEVELOPMENT PROJECT SITE PROPERTY MUST BE REMOVED IN CONJUNCTION WITH SITE DEVELOPMENT (929.08).
 - COMMERCIAL/MULTI-FAMILY BUILDINGS SHALL POST A MINIMUM 6 INCH NUMERICAL ADDRESS.
 - ALL BUILDINGS REQUIRE A KEY ACCESS BOX (KNOX).
 - BUILDINGS USING VERTICAL OR HORIZONTAL LIGHT-FRAME CONSTRUCTION IN ANY PORTION OF THE STRUCTURE SHALL BE MARKED WITH A SIGN AS REQUIRED BY FLORIDA STATE STATUTE 633.027 AND THE SIGN SHALL BE REQUIRED TO COMPLY WITH THE FLORIDA ADMINISTRATIVE CODE 69A-3.012 AND/OR 69A-60.0081. SIGN MUST BE 8 INCHES BY 8 INCHES. PAINTING, COLUMNS, DOOR LOCATIONS, AND UTILITY ENTRANCES.
 - THE CANOPY WILL MEET THE MINIMUM OF 13 FT. 6 IN. OF VERTICAL CLEARANCE SHALL BE PROVIDED FOR FIRE LANES. IRCO 952.17 (4).
 - THE DUMPSTER ENCLOSURE SHALL MATCH THE STYLE, FINISH AND COLOR OF THE MAIN BUILDING.
 - THERMOPLASTIC PAVEMENT MARKINGS SHALL BE REQUIRED ON EXISTING/PROPOSED DRIVEWAYS THAT CONNECT TO THE COUNTY RIGHT-OF-WAY (ROW) AND PROPOSE PAVEMENT MARKINGS WITHIN 25' OF THE COUNTY ROW.

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.



THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 FAC 19-05.000(6)

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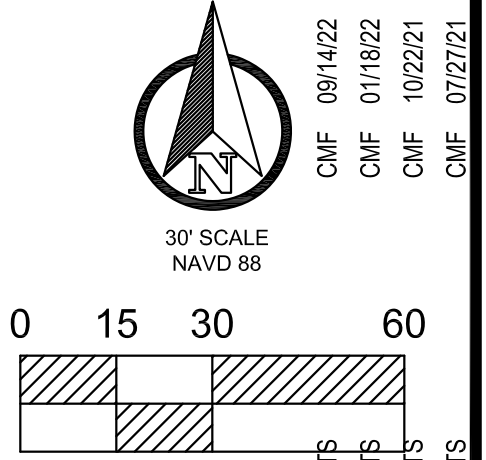
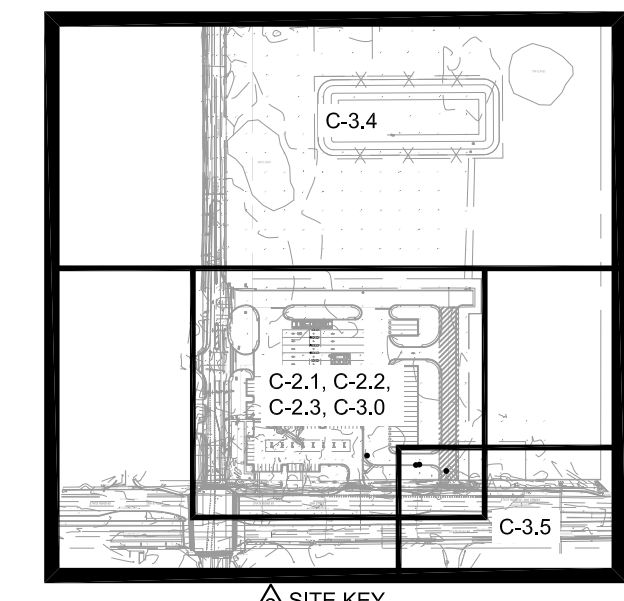
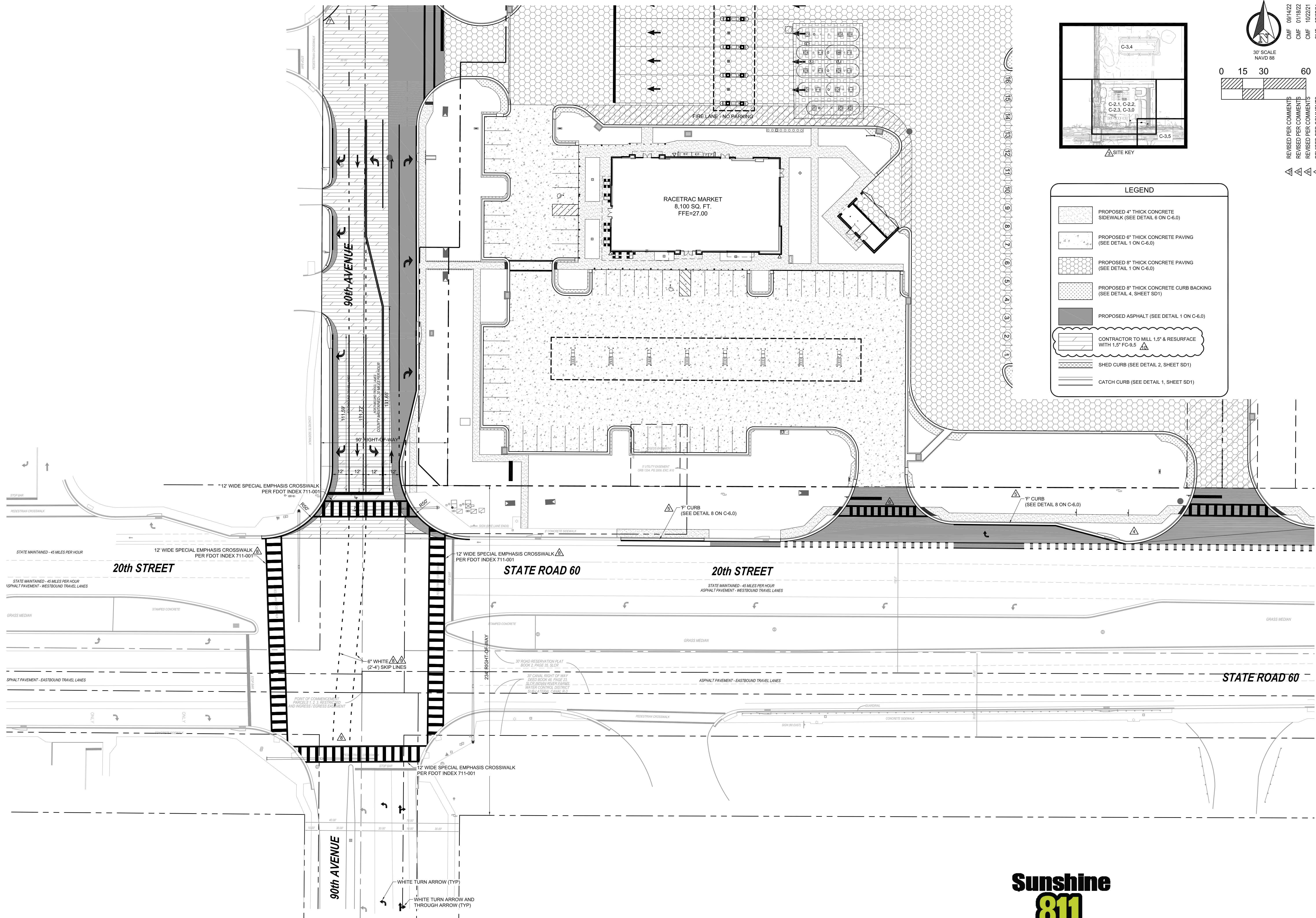


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Racetrac
 RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

SITE PLAN
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 30'
PROJECT NUMBER:	024-108
C-2.1	14
SHEET NO.	VERSION



LEGEND

- PROPOSED 4" THICK CONCRETE SIDEWALK (SEE DETAIL 6 ON C-6.0)
- PROPOSED 6" THICK CONCRETE PAVING (SEE DETAIL 1 ON C-6.0)
- PROPOSED 8" THICK CONCRETE PAVING (SEE DETAIL 1 ON C-6.0)
- PROPOSED 8" THICK CONCRETE CURB BACKING (SEE DETAIL 4, SHEET SD1)
- PROPOSED ASPHALT (SEE DETAIL 1 ON C-6.0)
- CONTRACTOR TO MILL 1.5" & RESURFACE WITH 1.5" FC-9.5
- SHED CURB (SEE DETAIL 2, SHEET SD1)
- CATCH CURB (SEE DETAIL 1, SHEET SD1)

NO.	REVISIONS	DATE
CMF 05/19/21	REVISED PER FOOT COMMENTS	
DDP 04/29/21	REVISED PER FOOT COMMENTS	
CMF 03/30/21	REVISED PER FOOT COMMENTS	
CMF 12/10/20	REVISED PER COUNTY COMMENTS	
SCP 10/31/20	REVISED PER COMMENTS	
CMF 05/11/20	REVISED PER COMMENTS	
BRP 11/15/19	ISSUED FOR PERMITTING	
BY		

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 PAGE 10 OF 15 (3-20-2019)

TANNATH DESIGN, INC.
 2484 ROSE SPRING DRIVE
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 (407) 982-9878
 www.tannathdesign.com
 FL. REG. #59461

BRYAN R. POTTS, P.E.
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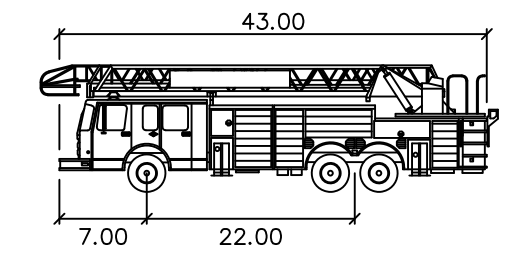
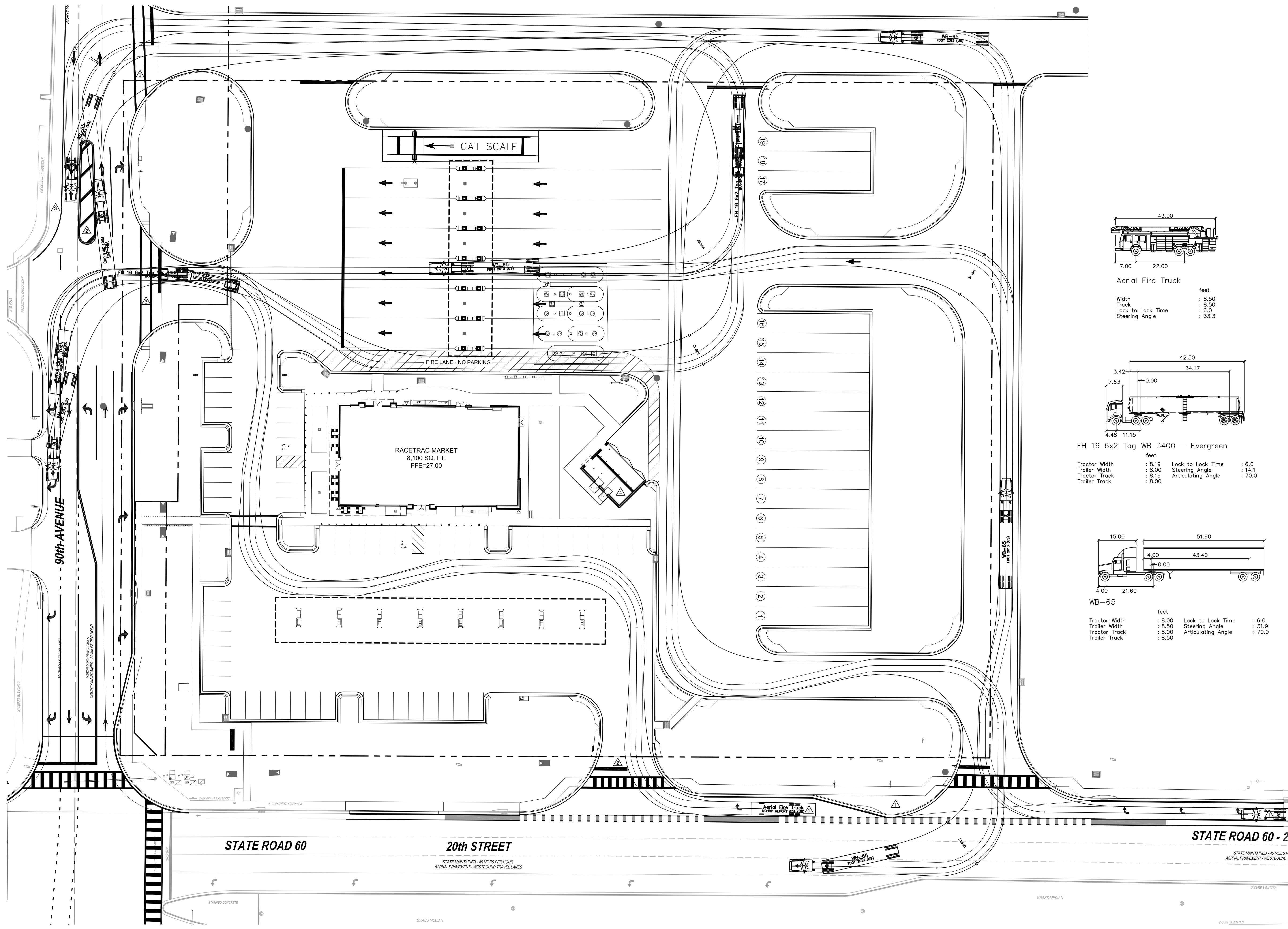
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 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

SR60 & 90TH AVE INTERSECTION
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 30'
PROJECT NUMBER:	024-108
C-2.4	10
SHEET NO.	VERSION

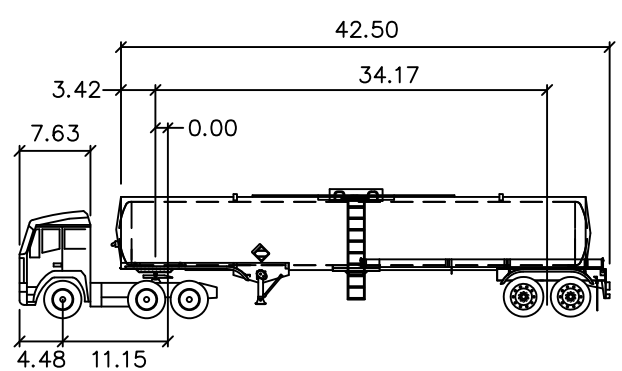
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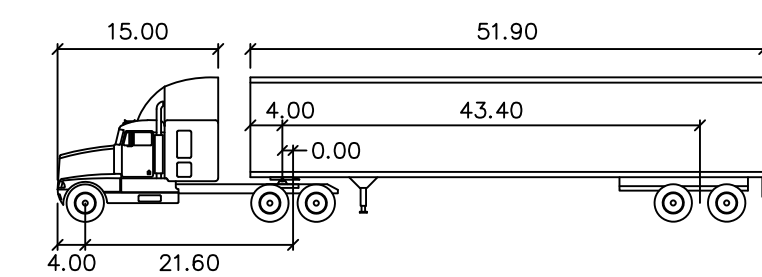
Aerial Fire Truck

feet
 Width : 8.50
 Track : 8.50
 Lock to Lock Time : 6.0
 Steering Angle : 33.3



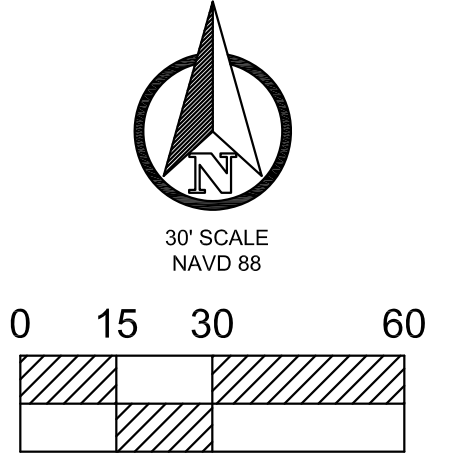
FH 16 6x2 Tag WB 3400 - Evergreen

feet
 Tractor Width : 8.19 Lock to Lock Time : 6.0
 Trailer Width : 8.00 Steering Angle : 14.1
 Tractor Track : 8.19 Articulating Angle : 70.0
 Trailer Track : 8.00



WB-65

feet
 Tractor Width : 8.00 Lock to Lock Time : 6.0
 Trailer Width : 8.50 Steering Angle : 31.9
 Tractor Track : 8.00 Articulating Angle : 70.0
 Trailer Track : 8.50



THESE PLANS ARE PREPARED IN COMPLIANCE WITH
SECTION 919.03(3)(b)

NO.	REVISIONS	DATE	BY
1	ISSUED FOR PERMITTING	11/15/19	BRP
2	REVISED PER FOOT COMMENTS	03/30/21	CMF
3	REVISED PER FOOT COMMENTS	05/19/21	CMF
4	REVISED PER CLIENT COMMENTS	12/20/21	CMF

TANNATH DESIGN, INC.
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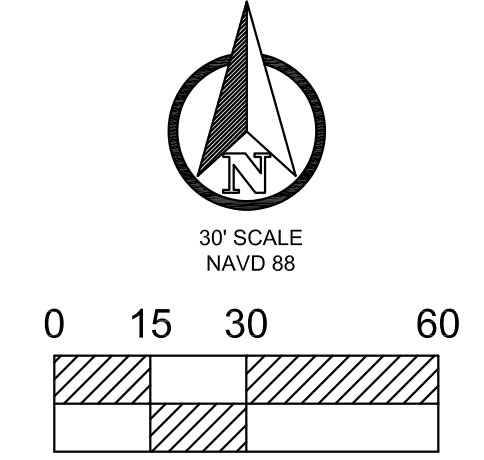
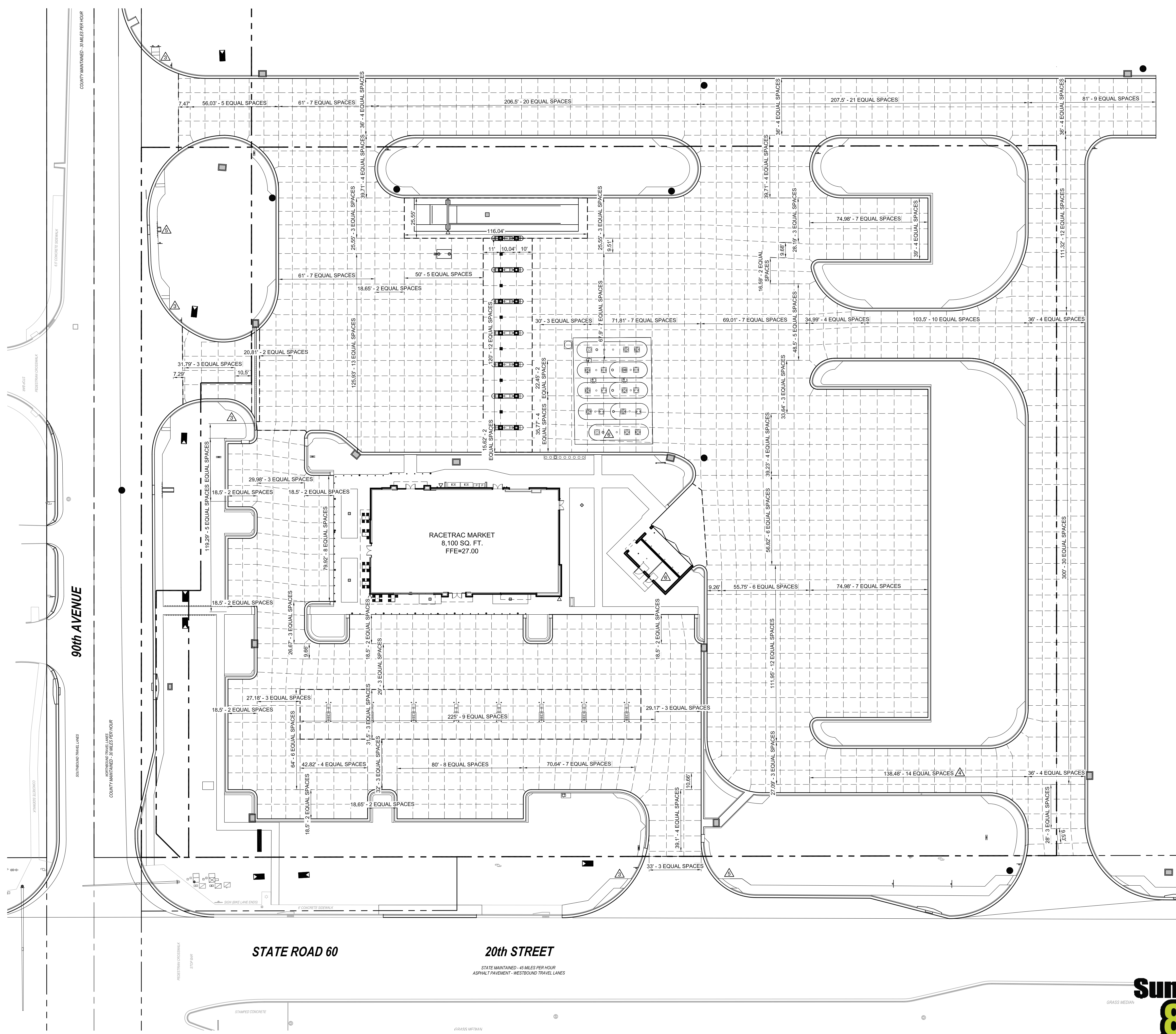
RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

AUTO TURN PLAN
RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 30'
PROJECT NUMBER:	024-108
C-2.5	4
SHEET NO.	VERSION

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

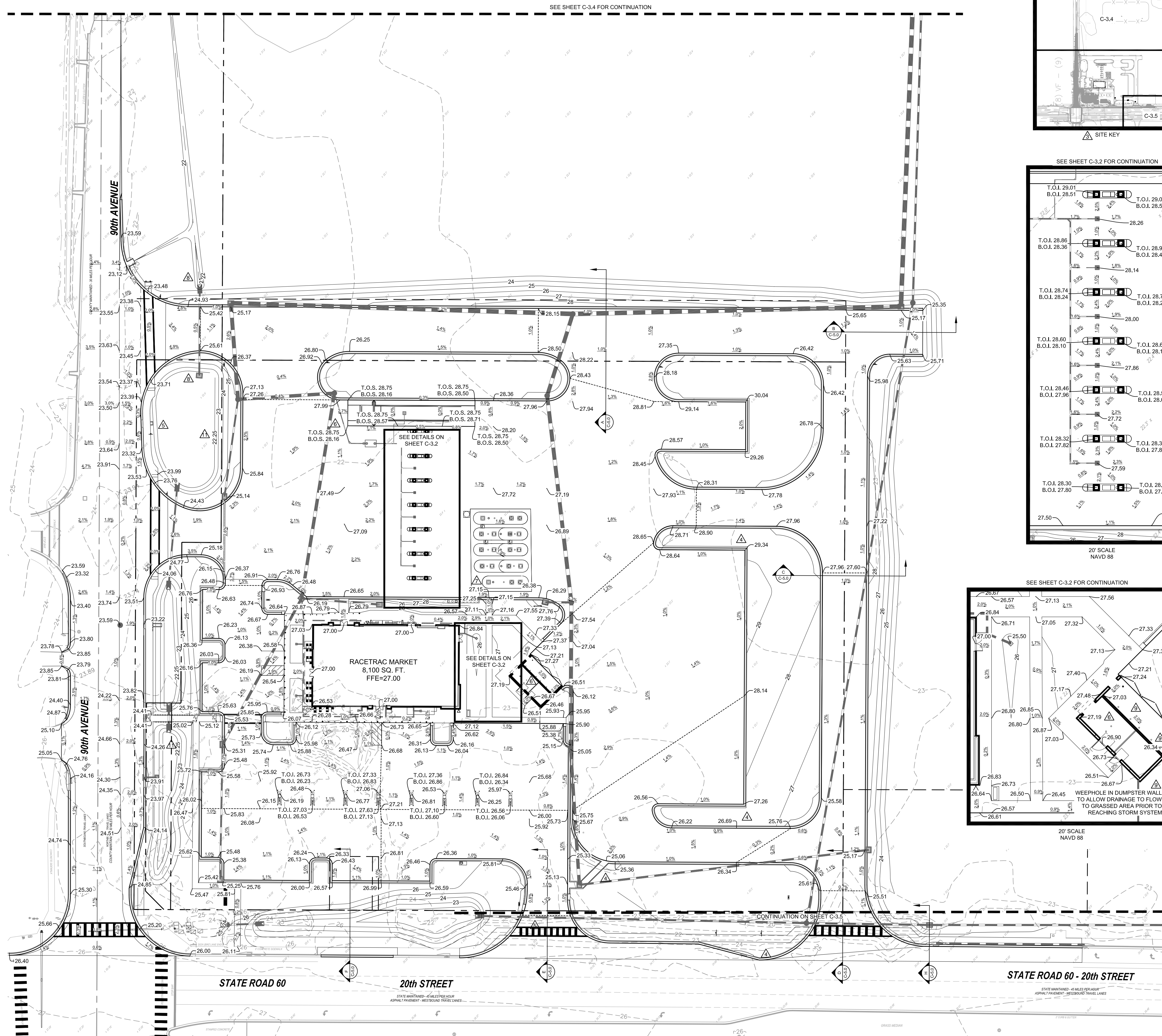




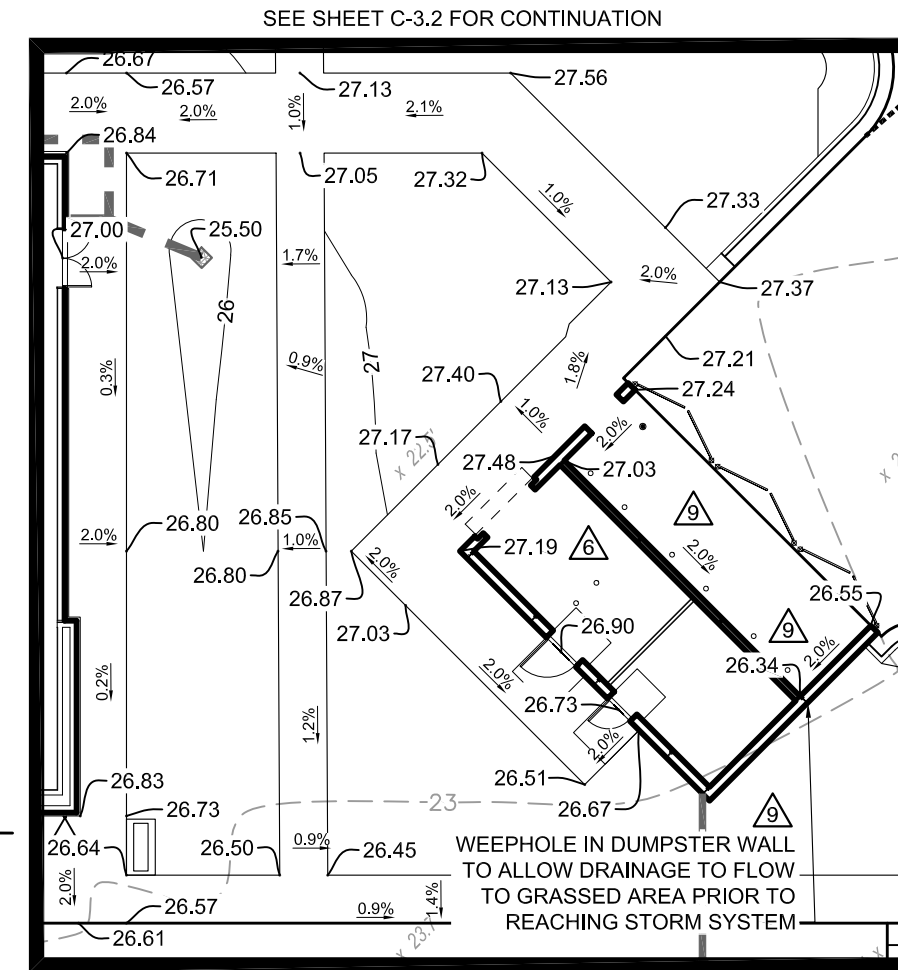
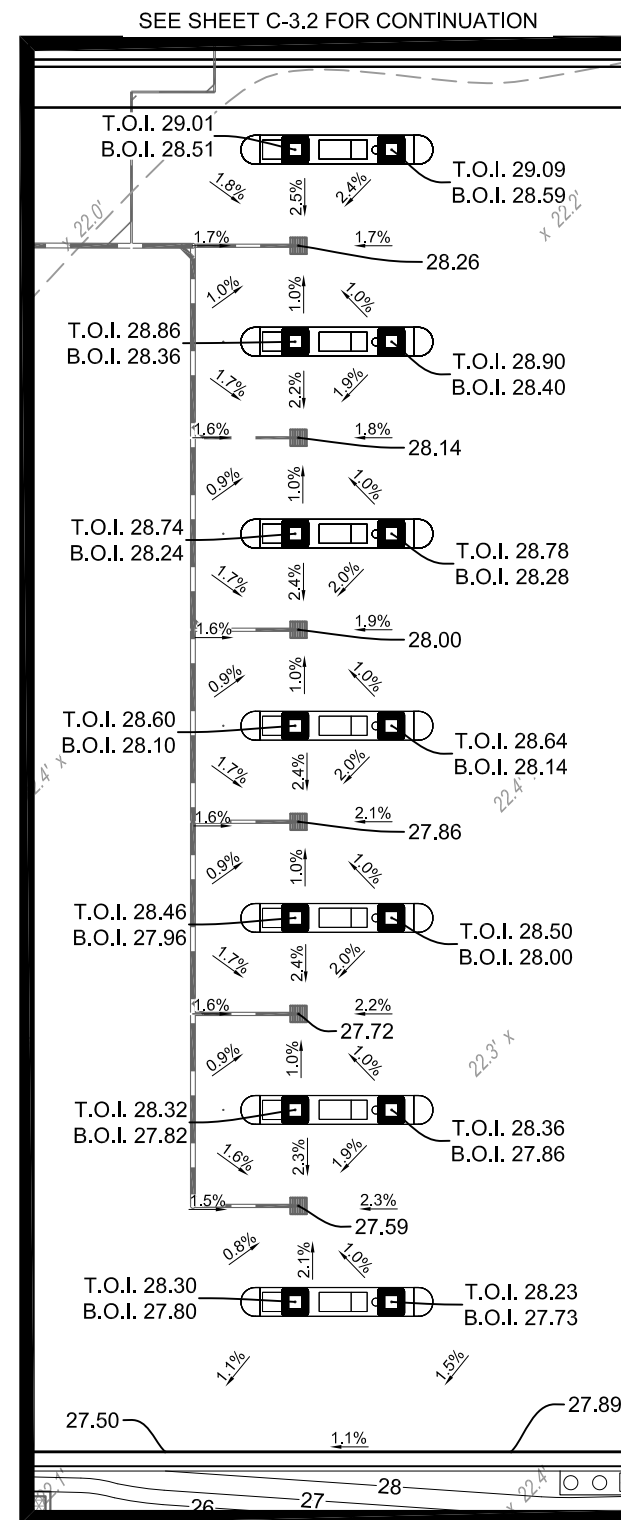
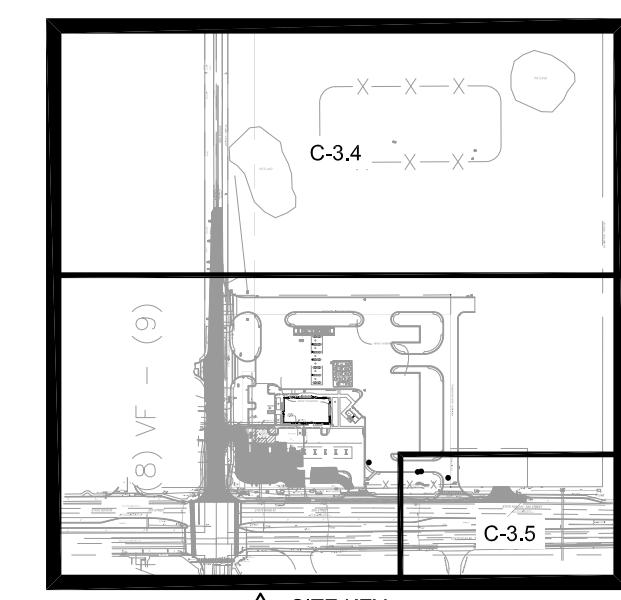
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<p>THESE PLANS ARE PREPARED IN COMPLIANCE WITH <small>PAGE 10 OF 13 (30388)</small></p>	
<p>REVISOR PER CLIENT COMMENTS CMF 12/20/21</p>	<p>REVISIONS</p>
<p>REVISOR PER FOOT COMMENTS CMF 05/19/21</p>	<p>NO.</p>
<p>REVISOR PER FOOT COMMENTS CMF 03/30/21</p>	<p>DATE</p>
<p>REVISOR PER COMMENTS CMF 12/10/20</p>	<p>BY</p>
<p>REVISOR PER COMMENTS SCP 10/31/20</p>	<p>DATE</p>
<p>REVISOR PER COMMENTS CMF 05/11/20</p>	<p>NO.</p>
<p>ISSUED FOR PERMITTING BRP 11/15/19</p>	<p>DATE</p>
<p>BRYAN R. POTTS, P.E. FL. REG. #59461</p>	
<p>TANNATH DESIGN, INC. 2484 ROSE SPRING DRIVE ORLANDA, FLORIDA 32625 (407) 982-9878 www.tannathdesign.com FL. CERT. OF AUTH. #27199</p>	
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<p>Racetrac RACETRAC PETROLEUM, INC. 200 GALLERIA PARKWAY S.E., SUITE 900 ATLANTA, GA 30339 (770) 431-7600</p>	
<p>JOINTING PLAN RACETRAC #1422 - VERO BEACH 8990 20TH STREET VERO BEACH, FL 32966 INDIAN RIVER COUNTY</p>	
<p>DRAWN-BY CMF</p>	<p>DATE 07/01/19</p>
<p>SCALE 1" = 30'</p>	<p>PROJECT NUMBER: 024-108</p>
<p>C-3.1</p>	<p>6</p>
<p>SHEET NO.</p>	<p>VERSION</p>



SEE SHEET C-3.4 FOR CONTINUATION

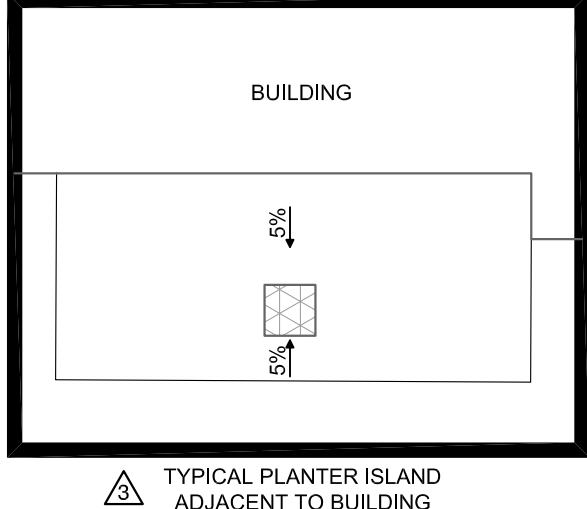


GRADING NOTES

- ELEVATIONS ADJACENT TO THE FOUNDATION ARE REQUIRED TO BE DESIGNED AND GRADED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, (FBC 2017 (BUILDING) - 1904.4 SITE GRADING) (2004.12) [ASCE 24]
 - THE ADJACENT SIDEWALK GRADING TO STRUCTURES IS REQUIRED TO BE 2% ACCEPTABLE TOLERANCE IS BETWEEN 1.8% AND 2% GRADE.
- ALL SIDEWALKS AND CROSSWALKS MUST BE GRADED IN ACCORDANCE WITH ADA.

PAVING AND DRAINAGE NOTES

- THE ENTITY THAT WILL OWN, OPERATE, AND MAINTAIN THE STORM SEWER SHOWN ON THESE PLANS IS RACETRAC PETROLEUM, INC. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THE PERMITS OBTAINED.
- THE CONTRACTOR SHALL PERFORM HIS OWN INVESTIGATIONS AND CALCULATIONS AS NECESSARY TO ASSURE HIMSELF OF EARTHWORK QUANTITIES. THERE IS NO IMPLICATION THAT EARTHWORK QUANTITIES, BALANCES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE NECESSARY TESTING TO ASSURE THAT THE PROPER COMPACTION HAS BEEN ACHIEVED ON THE SUBGRADE, BASE, AND ALL OTHER PERTINENT AREAS THAT HAVE BEEN COMPLETED. THE CONTRACTOR SHALL BEAR ALL COSTS ASSOCIATED WITH TESTING AND SHALL PROVIDE THE OWNER AND THE ENGINEER WITH COPIES OF THE CERTIFICATION OF COMPACTION FROM THE TESTING COMPANY.
- PRIOR TO BID PREPARATION, THE CONTRACTOR MUST BECOME FAMILIAR WITH THE OVERALL SITE CONDITIONS AND PERFORM ADDITIONAL INVESTIGATIONS AS DETERMINED NECESSARY TO UNDERSTAND THE LIMIT AND DEPTH OF EXPECTED ORGANIC SILT PEAT AREAS, ADEQUACY OF EXISTING MATERIALS AS FILL, DEWATERING REQUIREMENTS, CLEAN FILL REQUIRED FROM OFF-SITE AND MATERIALS TO BE DISPOSED OF OFF-SITE, ALL OF WHICH WILL AFFECT HIS PRICING. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR DUE TO INADEQUATE INVESTIGATION OF EXISTING CONDITIONS SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED. THE MATERIALS ANTICIPATED TO BE ENCOUNTERED DURING CONSTRUCTION MAY REQUIRE DRYING PRIOR TO USE AS BACKFILL, AND THE CONTRACTOR MAY HAVE TO IMPORT MATERIALS, AT NO EXTRA COST, FROM OFF-SITE TO MEET THE REQUIREMENTS FOR COMPACTION AND PROPER FILL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXISTING SITE CONDITIONS OF SOIL PRIOR TO N.T.P. TO DETERMINE IF ANY OFF-SITE MATERIALS WILL NEED TO BE IMPORTED TO ACHIEVE THE GRADES SPECIFIED ON THE PLANS.
- THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER WHEN ALL WORK IS LAID OUT (SURVEY STAKED), SO THAT A DETERMINATION MAY BE MADE OF SPECIFIC TREES TO BE REMOVED, A TREE REMOVAL PERMIT IS REQUIRED TO BE OBTAINED BY THE CONTRACTOR.
- ALL FILL MATERIALS SHALL BE FREE OF MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH, OR OTHER UNSUITABLE MATTER.
- ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NONORGANIC) FILL, STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE.
- FILL MATERIALS PLACED UNDER ROADWAYS SHALL BE COMPACTED TO AT LEAST 98% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. REFER TO SOILS REPORT FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND THE OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL.
- GRADING SHOWN ON THESE PLANS IS PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER A MINIMUM OF FORTY-EIGHT(48) HOURS PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.
- REINFORCED CONCRETE PIPE (RCP) SHALL BE CLASS II WITH RUBBER GASKET JOINTS. RCP SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 430-001. RUBBER GASKETS SHALL CONFORM TO SECTION 430-001.
- ALL OTHER RELATED ITEMS REQUIRED FOR THE CONSTRUCTION OF THE STORM SEWER (OUTFALL PROTECTION, POLLUTION CONTROL, ETC.) ARE TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THE CONSTRUCTION PLANS, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, AND FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).
- ALL PIPE CALL OUTS ARE MEASURED CENTERLINE TO CENTERLINE FOR MANHOLES AND INLETS.
- ALL ON-SITE AREAS DISTURBED BY THE CONSTRUCTION SHALL BE STABILIZED WITH A SEED AND MULCH MIXTURE UNLESS OTHERWISE NOTED.
- ALL OFF-SITE AREAS DISTURBED BY CONSTRUCTION SHALL BE SODDED WITH BAHIA.
- NO HARD WOOD TREES MAY BE PLANTED OVER OR WITHIN 5' OF UTILITY LINES OR STORM PIPES. ONLY SOD OR SOFT WOOD SHRUBS MAY BE PLANTED OVER UTILITY LINES.
- ALL MITERED END SECTIONS TO BE CONSTRUCTED IN ACCORDANCE WITH FDOT INDEX 430-022.



LEGEND

	STORM STRUCTURE I.D.		DRAINAGE SURFACE FLOW
	MITERED END SECTION		PAVEMENT JOINTS
	STORM CATCH BASIN		DRAINAGE RIDGE
	CONCRETE SPLASH PAD		PROPOSED GRADES
			EXISTING SPOT ELEV.

10/20/21	CMF	REVISED PER CLIENT COMMENTS	NO.	DATE
05/19/21	CMF	REVISED PER CLIENT COMMENTS	NO.	DATE
03/30/21	CMF	REVISED PER CLIENT COMMENTS	NO.	DATE
11/20/20	CMF	REVISED PER COMMENTS	NO.	DATE
10/12/20	SCP	REVISED PER COMMENTS	NO.	DATE
05/11/20	BRP	ISSUED FOR PERMITTING	NO.	DATE
11/15/19	BRP	REVISED PER COMMENTS	NO.	DATE
02/09/22	CMF	REVISED PER COMMENT	NO.	DATE
04/29/22	SCP	REVISED PER COMMENT	NO.	DATE
05/19/22	CMF	REVISED PER COMMENT	NO.	DATE
06/30/22	CMF	REVISED PER COMMENT	NO.	DATE
12/20/21	CMF	REVISED PER CLIENT COMMENTS	NO.	DATE

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
FAC 19J-6.000(3)(b)

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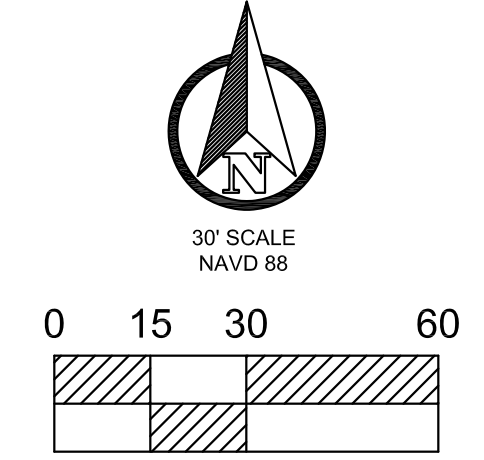
Racetrac
RACETRAC PETROLEUM, INC.
200 GALLERIA PARKWAY S.E., SUITE 900
ATLANTA, GA 30339
(770) 431-7600

GRADING PLAN
RACETRAC #1422 - VERO BEACH
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY: CMF
DATE: 07/01/19
SCALE: 1" = 40'
PROJECT NUMBER: 024-108
SHEET NO. C-3.2
VERSION 11



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NO.	DATE	REVISIONS	BY	DATE
1	10/24/22	CMF	CMF	02/09/21
2	07/27/21	CMF	CMF	07/27/21
3	11/22/20	CMF	CMF	11/22/20
4	10/31/20	SCP	CMF	10/31/20
5	05/11/20	CMF	CMF	05/11/20
6	11/19/19	BRP	BRP	11/19/19

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PAGE 10 OF 15 (3-2018)

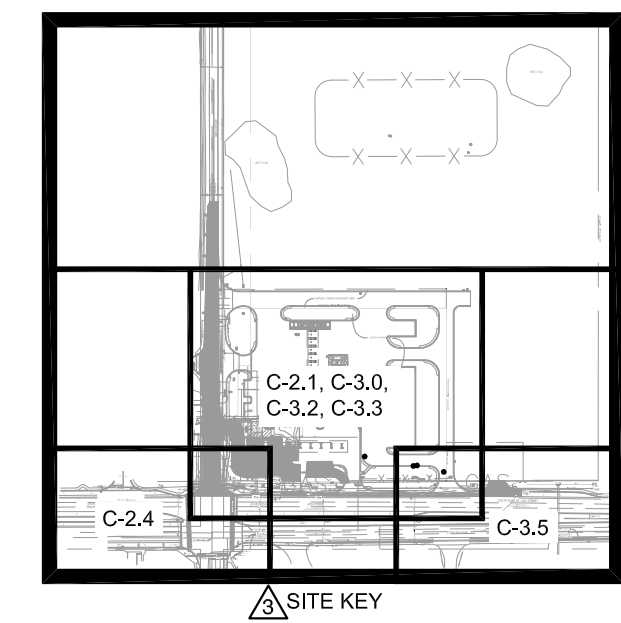
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OFF-SITE DRAINAGE / HORZ. PLAN
RACETRAC #1422 - VERO BEACH
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 30'
PROJECT NUMBER:	024-108
C-3.4	6
SHEET NO.	VERSION



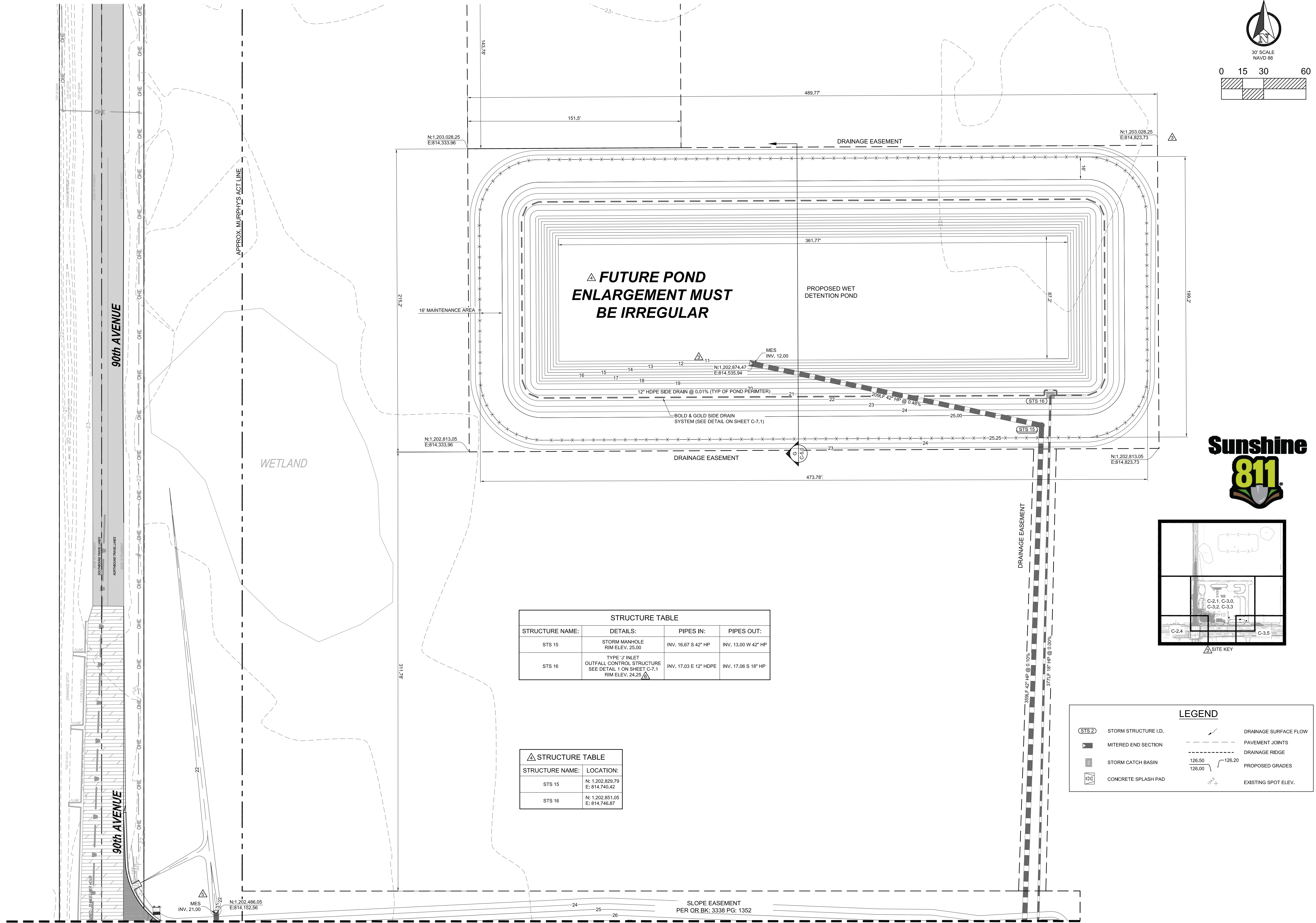
STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
STS 15	STORM MANHOLE RIM ELEV. 25.00	INV. 16.67 S 42" HP	INV. 13.00 W 42" HP
STS 16	TYPE 'J' INLET OUTFALL CONTROL STRUCTURE SEE DETAIL 1 ON SHEET C-7.1 RIM ELEV. 24.25	INV. 17.03 E 12" HOPE	INV. 17.06 S 18" HP

STRUCTURE TABLE	
STRUCTURE NAME:	LOCATION:
STS 15	N: 1,202,829.79 E: 814,740.42
STS 16	N: 1,202,851.05 E: 814,746.87

LEGEND			
	STORM STRUCTURE I.D.		DRAINAGE SURFACE FLOW
	MITERED END SECTION		PAVEMENT JOINTS
	STORM CATCH BASIN		DRAINAGE RIDGE
	CONCRETE SPLASH PAD		PROPOSED GRADES
			EXISTING SPOT ELEV.

△ FUTURE POND ENLARGEMENT MUST BE IRREGULAR

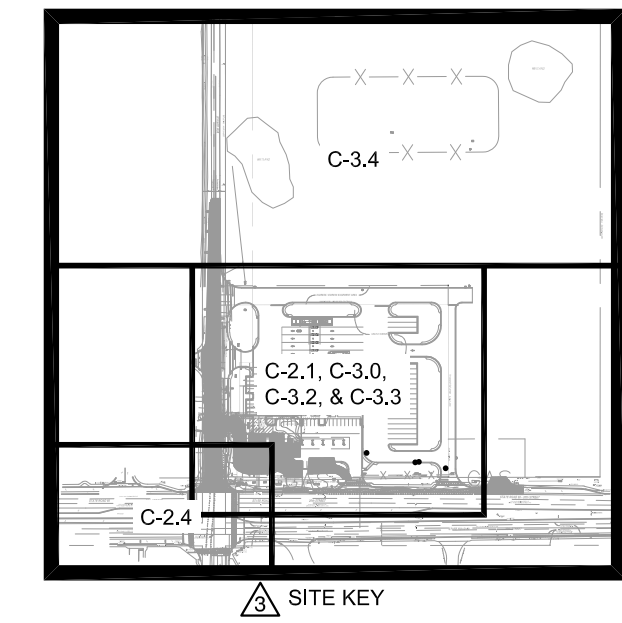
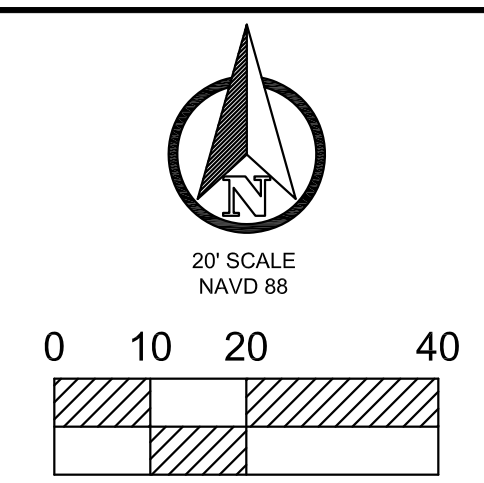
PROPOSED WET DETENTION POND



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SEE SHEET C-2.1, C-2.2, C-3.0, C-3.2 & C-3.3 FOR CONTINUATION

SLOPE EASEMENT
PER OR BK: 3338 PG: 1352



STRUCTURE TABLE	
STRUCTURE NAME:	LOCATION:
EX STS 1	N: 1,201,964.50 E: 814,870.43
EX STS 2	N: 1,201,948.50 E: 814,876.59
STS 17	N: 1,201,966.11 E: 814,649.00
STS 18	N: 1,201,964.55 E: 814,749.70
STS 29	N: 1,201,941.68 E: 814,598.05
STS 30	N: 1,201,949.53 E: 814,755.02

STRUCTURE TABLE			
STRUCTURE NAME:	DETAILS:	PIPES IN:	PIPES OUT:
EX STS 1	EXISTING CATCH BASIN RIM ELEV. 22.08	INV. 17.03 W 18" RCP INV. 17.03 E 18" RCP	INV. 17.03 S 18" RCP
EX STS 2	EX. STORM INLET RIM ELEV. 25.19	INV. 20.92 W 18" RCP INV. 24.43 SW 18" RCP	
STS 17	STORM MANHOLE RIM ELEV. 25.18	INV. 17.06 N 18" HP INV. 19.83 W 18" RCP	INV. 17.06 E 18" RCP
STS 18	TYPE 'D' INLET RIM ELEV. 23.35	INV. 17.05 W 18" RCP	INV. 17.05 E 18" RCP
STS 29	FDOT TYPE 6" INLET (PER FDOT INDEX 425-021) CONTRACTOR TO MODIFY EXISTING INLET TO CAPTURE STORM 3.3' NORTH OF CURRENT LOCATION. RIM ELEV. 24.42		INV. 19.79 S 18" RCP
STS 30	FDOT TYPE 6" INLET (PER FDOT INDEX 425-021) RIM ELEV. 24.53		INV. 21.00 E 18" RCP

LEGEND

- PROPOSED 4" THICK CONCRETE SIDEWALK (SEE DETAIL 6 ON C-6.0)
- PROPOSED 6" THICK CONCRETE PAVING (SEE DETAIL 1 ON C-6.0)
- PROPOSED 8" THICK CONCRETE PAVING (SEE DETAIL 1 ON C-6.0)
- PROPOSED 8" THICK CONCRETE CURB BACKING (SEE DETAIL 4, SHEET SD1)
- PROPOSED ASPHALT (SEE DETAIL 1 ON C-6.0)
- CONTRACTOR TO MILL 1.5" & RESURFACE WITH 1.5" FC-9.5
- SHED CURB (SEE DETAIL 2, SHEET SD1)
- CATCH CURB (SEE DETAIL 1, SHEET SD1)

NO.	REVISIONS	DATE
09/14/22	CMF	
05/19/21	CMF	
03/30/21	CMF	
11/20/20	CMF	
10/31/20	SCP	
05/11/20	CMF	
11/19/19	BRP	

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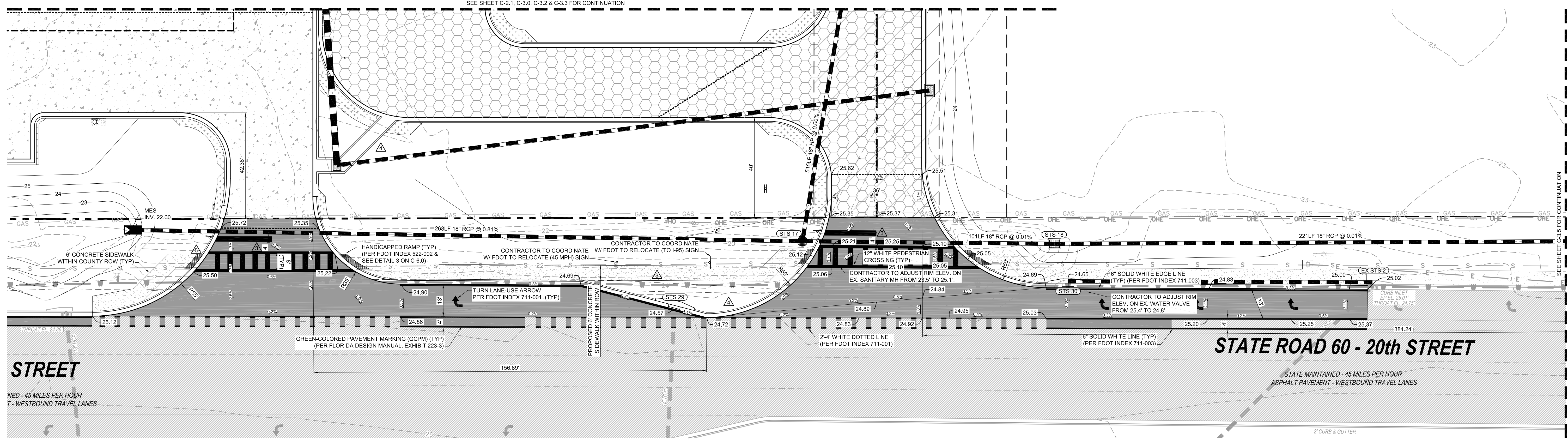
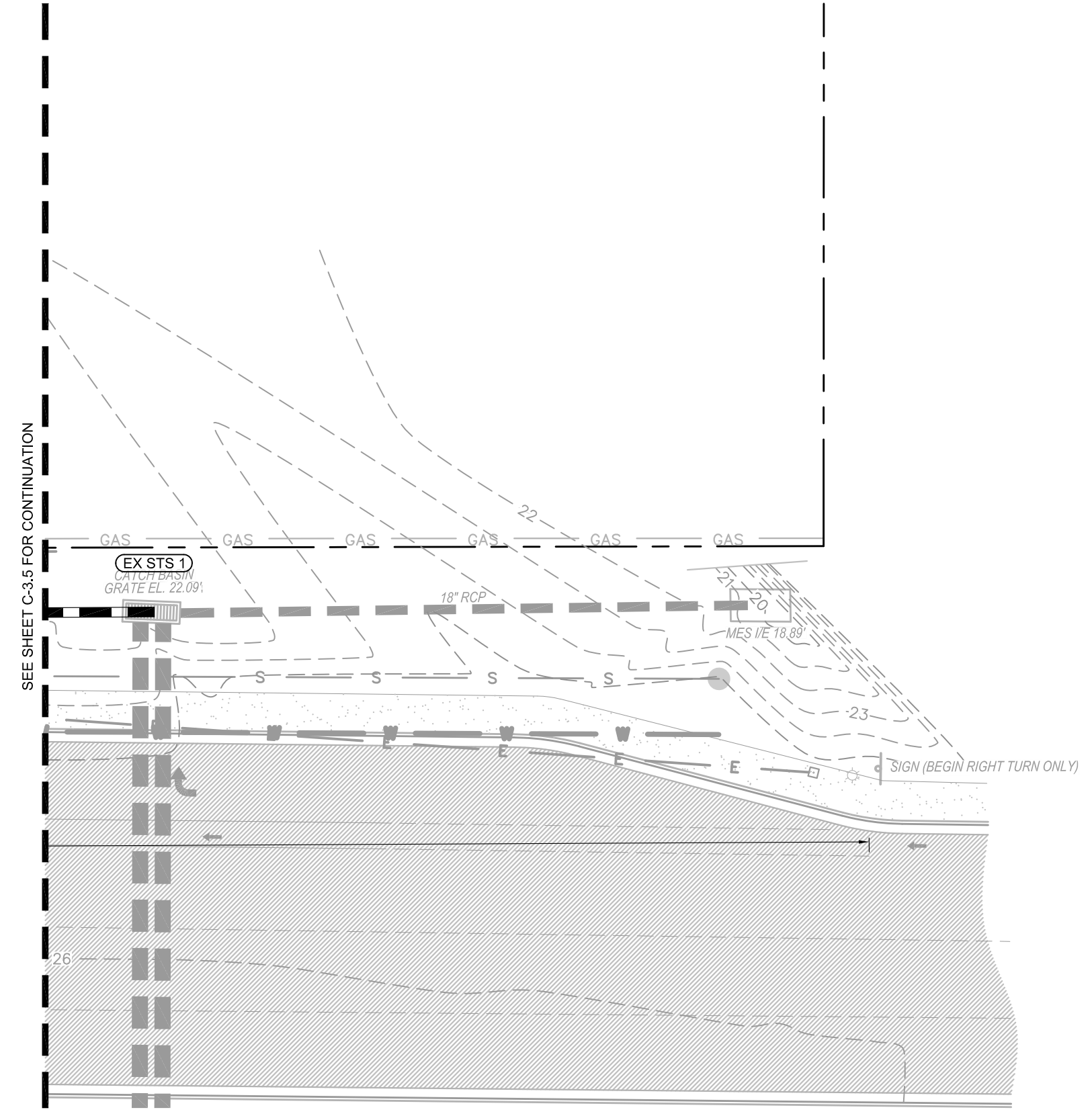
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8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 20'
PROJECT NUMBER:	024-108
C-3.5	6
SHEET NO.	VERSION

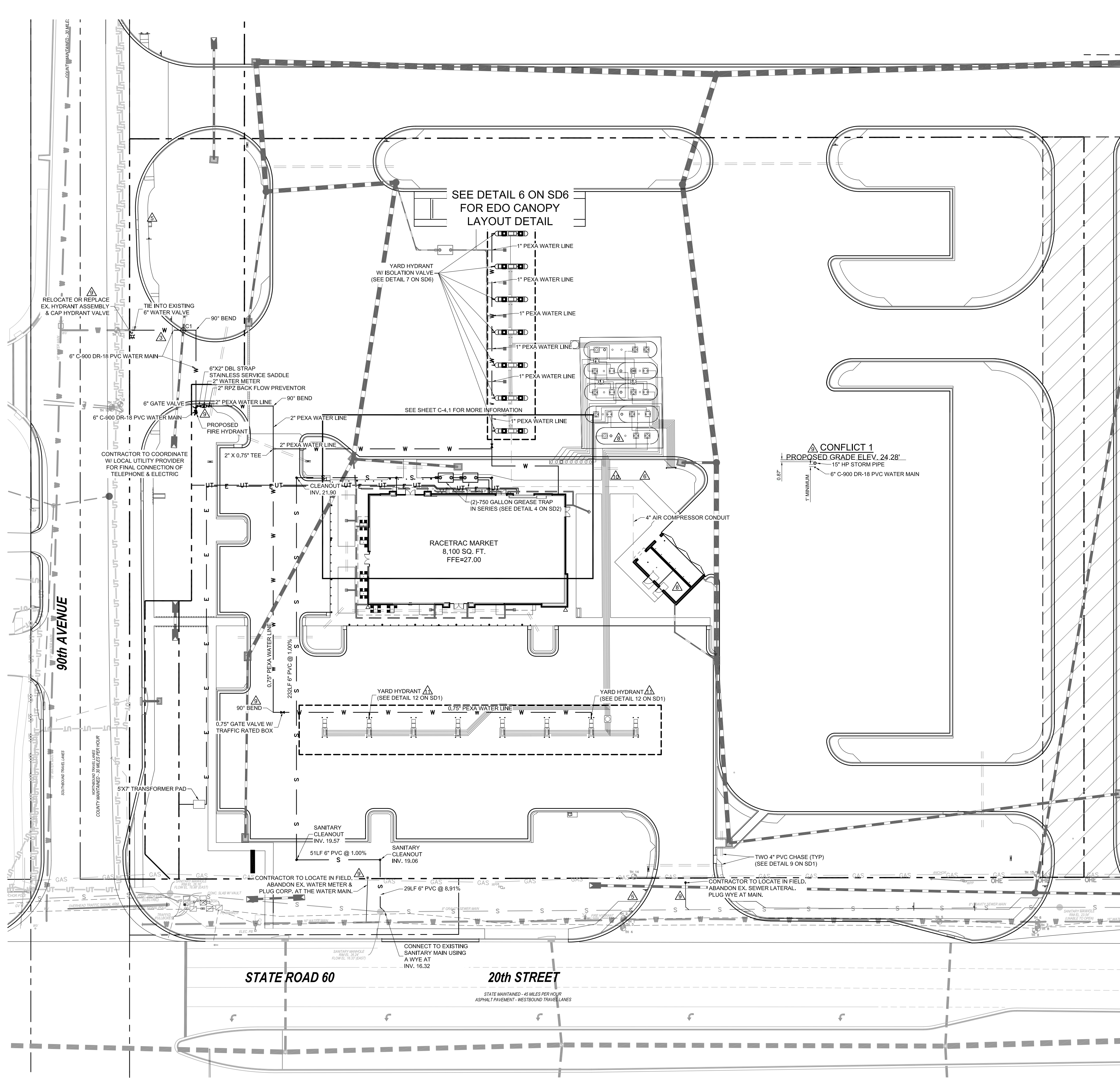


STATE ROAD 60 - 20th STREET

STATE MAINTAINED - 45 MILES PER HOUR
ASPHALT PAVEMENT - WESTBOUND TRAVEL LANES



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FIRE FLOW CALCULATIONS:
 PER NFPA 1, CH 18.4 FIRE FLOW REQUIREMENTS FOR BUILDINGS
 CONSTRUCTION TYPE V-B OR W-000
 THE TOTAL BUILDING SQUARE FOOTAGE IS 8,100.
 THIS REQUIRES A FLOW OF 2,500 GPM - 2 HR.

REQUIRED DESIGN FLOW - 2,500 GPM

PER NFPA 1, Ch 18.5 FIRE HYDRANTS

0-250' FROM STRUCTURE -	1,000 gpm	2 HYDRANT
250-500' FROM STRUCTURE -	600 gpm	1 HYDRANT
500-1000' FROM STRUCTURE -	250 gpm	0 HYDRANT

PROVIDED FLOW - 2,600 GPM

SANITARY WASTEWATER AND WATER SYSTEM NOTES:

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AT ALL POINTS OF CONNECTION, AND AT ALL AREAS OF CONFLICT.
- IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR TO ENSURE THAT ALL REQUIRED PERMITS ARE IN HAND BEFORE BEGINNING ANY CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING & VERIFYING ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION & FOR NOTIFYING THE VARIOUS UTILITY COMPANIES TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY RELOCATION, TEMPORARY DISRUPTION OF SERVICE, OR CLARIFICATION OF ACTIVITY REGARDING SUD UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY WHETHER SHOWN ON THE PLANS OR FIELD LOCATED. ALL UTILITIES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANIES & THE CONTRACTOR SHALL COOPERATE WITH THEM DURING THE RELOCATION OPERATION. ANY DELAY OR INCONVENIENCE OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT & NO EXTRA COMPENSATION WILL BE ALLOWED.
- ALL CONSTRUCTION OF THE SEWER COLLECTION AND WATER DISTRIBUTION SYSTEMS SHALL MEET INDIAN RIVER COUNTY SPECIFICATIONS FOR WASTEWATER & WATER MAIN CONSTRUCTION.
- CROSS CONNECTION CONTROL SHALL BE IN ACCORDANCE WITH RULES & REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENTAL PROTECTION-CHAPTER 62-555 "PERMITTING & CONSTRUCTION OF PUBLIC WATER SYSTEMS."
- CONTRACTOR SHALL COORDINATE ALL WATER SYSTEM TESTING SCHEDULING TO ALLOW ENGINEERS ATTENDANCE & PROVIDE FIVE (5) WORKING DAYS NOTICE OF WATER TESTS. CONTRACTOR'S FAILURE TO PROPERLY NOTIFY ENGINEER MAY RESULT IN RETESTING AT ENGINEER'S OPTION & AT CONTRACTOR'S EXPENSE.
- ENGINEER RESERVES THE RIGHT TO WITHHOLD APPROVAL FOR ANY PORTION OF THE WATER OR SEWER PIPE WORK WHICH HAS NOT BEEN TESTED (OBSERVED BY ENGINEER) & REPORTED TO CONFORM TO PROJECT SPECIFICATIONS.
- SITE CONTRACTOR SHALL COORDINATE & VERIFY ALL UTILITY SERVICES WITH FINAL ARCHITECTURAL DRAWINGS & BUILDING CONTRACTOR.
- CONTRACTOR SHALL MAINTAIN A SET OF RECORD DRAWINGS MARKED UP WITH HORIZONTAL & VERTICAL AS-BUILT INFORMATION ON LOCATION OF WATER MAINS, FITTINGS & WATER SERVICES LOCATED FROM CENTERLINE OF NEAREST FIRE HYDRANT OR NEAREST MANHOLE.
- SITE UTILITY WORK SHALL TERMINATE 5 FEET FROM BUILDINGS UNLESS OTHERWISE STATED.
- CONTRACTOR SHALL NOT ACTIVATE WATER SERVICE UNTIL THE FDEP HAS CLEARED THE SYSTEM FOR USE & THE CLEARANCE LETTER HAS BEEN RECEIVED BY THE OWNER.
- EXISTING WATER MAINS SHALL BE PROTECTED FROM CONTAMINATION DURING THE FILLING, FLUSHING, & TESTING OF NEW LINES IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF AWWA C900.19.
- THE CONTRACTOR SHALL DISINFECT ALL SECTIONS OF THE WATER DISTRIBUTION SYSTEM IN ACCORDANCE WITH THE FDEP WATER PERMIT, & RECEIVE APPROVAL THEREOF FROM THE LOCAL WATER UTILITY, ENGINEER OF RECORD, & FDEP PRIOR TO PLACING IN SERVICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN COPIES OF THE FDEP WATER & SEWER PERMITS FROM THE OWNER & MAINTAIN THEM ON THE JOB SITE AT ALL TIMES. DISINFECTION OF THE WATER DISTRIBUTION SYSTEM SHALL BE PERFORMED IN ACCORDANCE WITH THE AWWA 651 "DISINFECTING WATER MAINS."
- THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.
- ALL VERTICAL BENDS ON WATER MAIN SHALL BE RESTRAINED WITH A MECHANICAL JOINT FITTING SUPPLIED WITH THE RETAINER GLANDS. ANY JOINTS 25 FEET OR LESS FROM EITHER SIDE OF VERTICAL BEND SHALL BE RESTRAINED WITH A RETAINER GLAND.
- DIMENSIONS SHOWN ARE TO CENTERLINE OF PIPE OR FITTING.
- THRUST BLOCKS SHALL BE PROVIDED AT ALL HORIZONTAL BENDS, TEES, AND FIRE HYDRANTS.
- THE MINIMUM COVER ON WATER MAINS SHALL BE 3 FEET.
- PIPE MATERIAL SHALL BE "ENDUROPE" PE 3408 - 200"PSI.
- GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE THE IRRIGATION SYSTEM REQUIREMENTS BETWEEN THE IRRIGATION CONTRACTOR AND PLUMBING CONTRACTOR, IRRIGATION TAP, METERS, ETC. SHALL BE INCLUDED IN GENERAL CONTRACTOR'S BASE BID.

UTILITY SEPERATION NOTE:

HORIZONTAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS

UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SANITARY SEWERS SHALL BE REDUCED TO THREE (3) FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX (6) INCHES ABOVE THE TOP OF THE SEWER. UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN (10) FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS AND RECLAIMED WATER PIPELINES

UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX (6) INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE. AT THE UTILITY CROSSINGS DESCRIBED ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.

SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES.

NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE. EFFECTIVE AUGUST 28, 2003, WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.

SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS.

RECLAIMED WATER PIPELINES AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS

FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, AT LEAST THREE (3) FEET, AND PREFERABLY TEN (10) FEET FROM ANY EXISTING OR PROPOSED VACUUM TYPE SANITARY SEWER, AT LEAST SIX (6) FEET, AND PREFERABLY TEN (10) FEET FROM ANY EXISTING OR PROPOSED GRAVITY OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER, AND AT LEAST TEN (10) FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM."

POWER NOTES:

- CONTRACTOR IS RESPONSIBLE FOR INSTALLING ALL NECESSARY CONDUIT AND PULL WIRE ON-SITE UP TO PROPERTY.
- CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SERVICE LINES WITH DUKE ENERGY.
- CONTRACTOR SHALL PROVIDE TRANSFORMER PAD (UNLESS TRANSFORMER IS POLE MOUNTED) TO ALLOW FOR INSTALLATION OF TRANSFORMER BY DUKE ENERGY.

TELEPHONE NOTES:

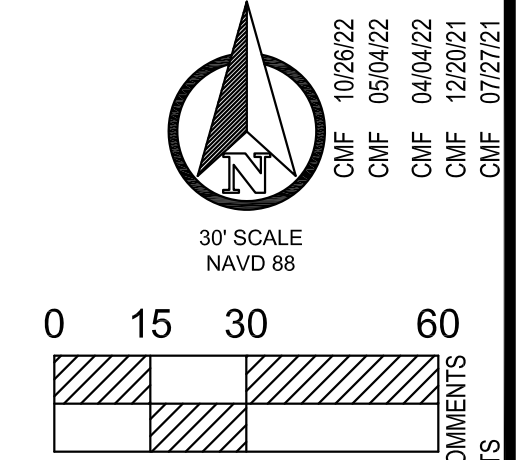
CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PVC CONDUIT INCLUDING TRENCHING BEDDING, PULL WIRE, AND BACKFILLING. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING FRONTIER TO SCHEDULE AND COORDINATE WORK PRIOR TO INSTALLING CONDUIT.

SITE SPECIFIC NOTES:

- CONTRACTOR TO INCLUDE FOR ALL SECONDARY CONDUITS (CONDUIT ONLY) DEPICTED ON UTILITY PAGE IN BASE BID. INCLUDE FOR LENGTH UP POLE APPROX 30FT. WIRE IS ASSUMED TO BE BY UTILITY DEPARTMENT.
 - SECONDARY WIRE WILL BE PROVIDED IN BID AS AN ALTERNATE PRICE IN L.F. AND HANDLED AS A CHANGE ORDER IF REQUIRED.
- CONTRACTOR TO INCLUDE TWO (2) 1" CONDUITS TO BOTH SIGN LOCATIONS.
 - ONE (1) 1" CONDUIT IS FOR ELECTRICAL. ONE (1) 1" CONDUIT IS FOR COMMUNICATION.
 - CONTRACTOR IS RESPONSIBLE TO PROVIDE CAT 5 HOME-RUN BETWEEN PRICE SIGN AND FINAL DESTINATION INSIDE THE BUILDING. FINAL DESTINATION TO BE DETERMINED BY RACETRAC CONSTRUCTION MANAGER DURING CONSTRUCTION.

TELEPHONE NOTES:

CONTRACTOR IS RESPONSIBLE FOR INSTALLING THE PVC CONDUIT INCLUDING TRENCHING BEDDING, PULL WIRE, AND BACKFILLING. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING FRONTIER TO SCHEDULE AND COORDINATE WORK PRIOR TO INSTALLING CONDUIT.



CMF	05/29/22	REVISED PER CLIENT COMMENTS	NO.	DATE
CMF	05/19/21	REVISED PER FOOT COMMENTS	NO.	DATE
CMF	03/30/21	REVISED PER FOOT COMMENTS	NO.	DATE
CMF	12/10/20	REVISED PER COMMENTS	NO.	DATE
SCP	10/1/20	REVISED PER COMMENTS	NO.	DATE
SCP	05/1/20	REVISED PER COMMENTS	NO.	DATE
BRP	11/15/19	ISSUED FOR PERMITTING	NO.	DATE
CMF	07/27/21	REVISED PER COMMENTS	NO.	DATE
CMF	05/04/22	REVISED PER COMMENTS	NO.	DATE
CMF	04/18/22	REVISED PER COMMENTS	NO.	DATE
CMF	12/17/21	REVISED PER COMMENTS	NO.	DATE
CMF	07/27/21	REVISED PER COMMENTS	NO.	DATE

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 FAC 19-05.000(6)

TANNATH DESIGN, INC.
 6484 ROSE SPRING DRIVE
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 (407) 982-9878
 www.tannathdesign.com
 FL REG. #59461
 BRYAN R. POTTS, P.E.
 FL REG. #59461

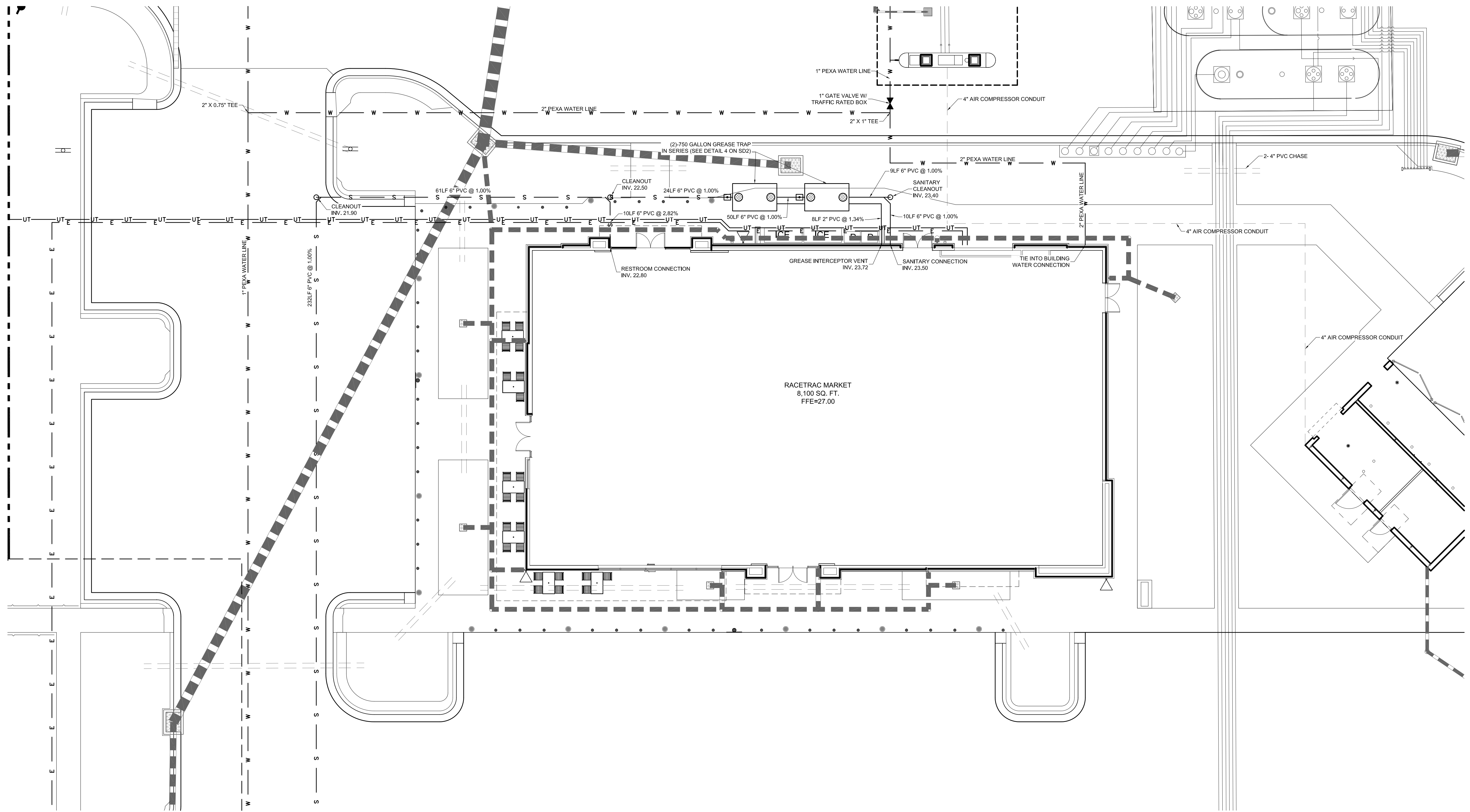
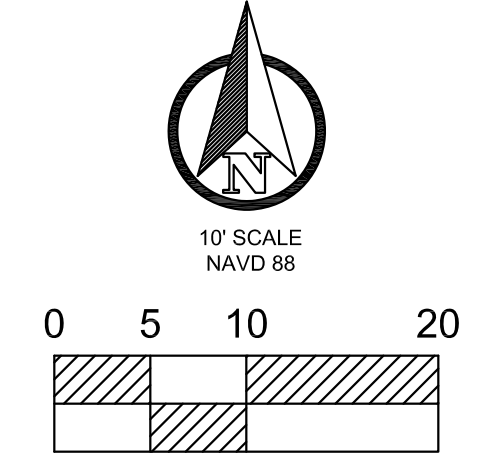
Racetrac
 RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

Sunshine 811

UTILITY PLAN
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY


DRAWN-BY: CMF
 DATE: 07/01/19
 SCALE: 1" = 30'
 PROJECT NUMBER: 024-108
 SHEET NO. 11
 VERSION 11

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.



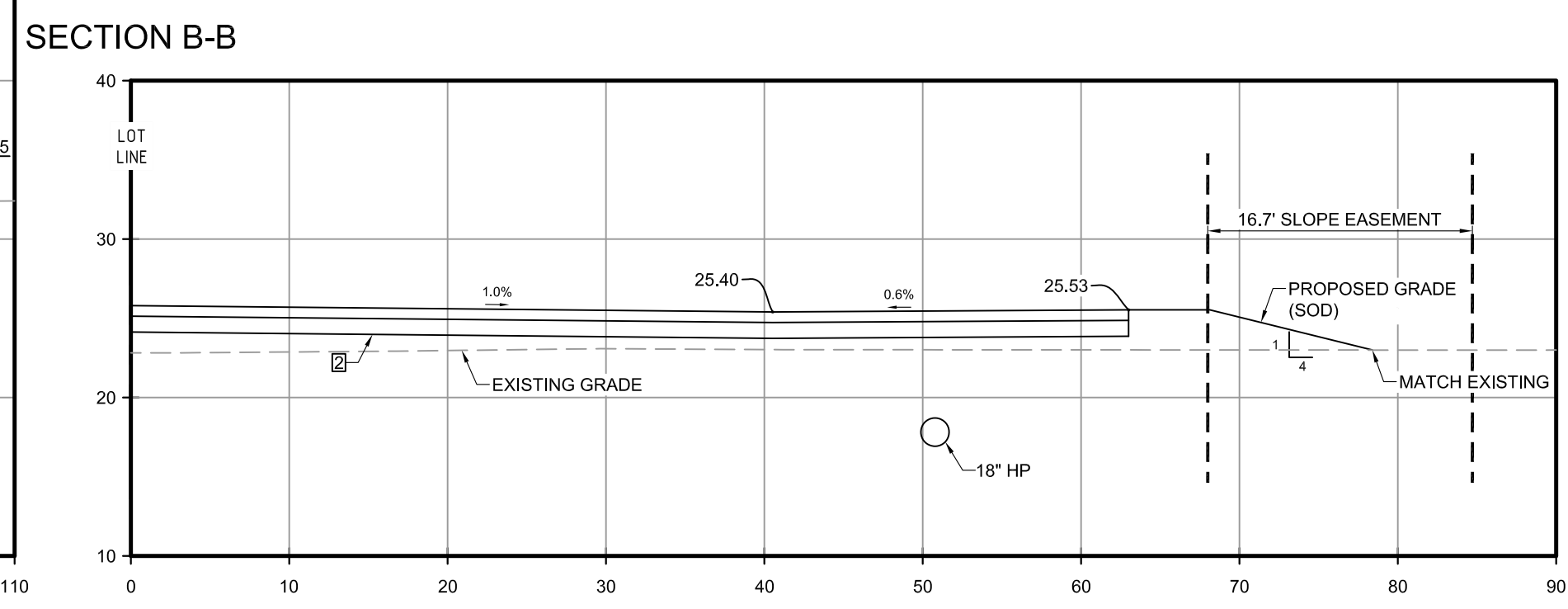
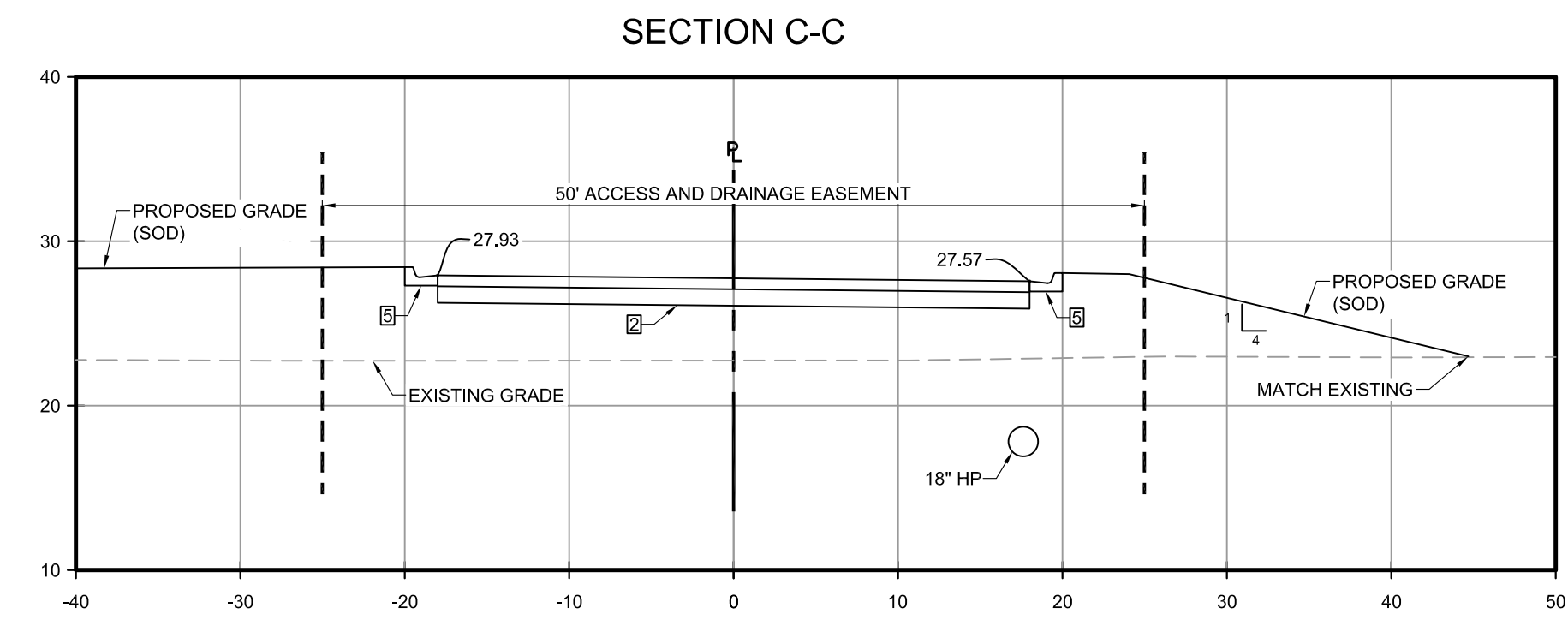
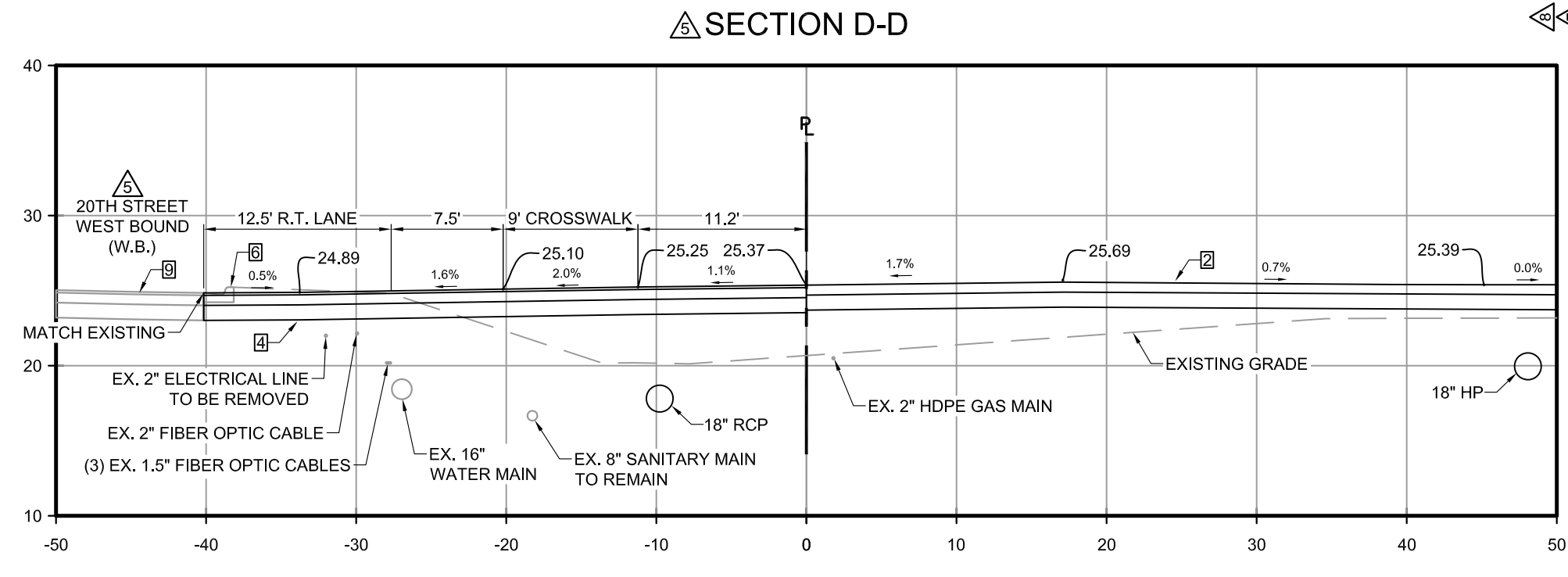
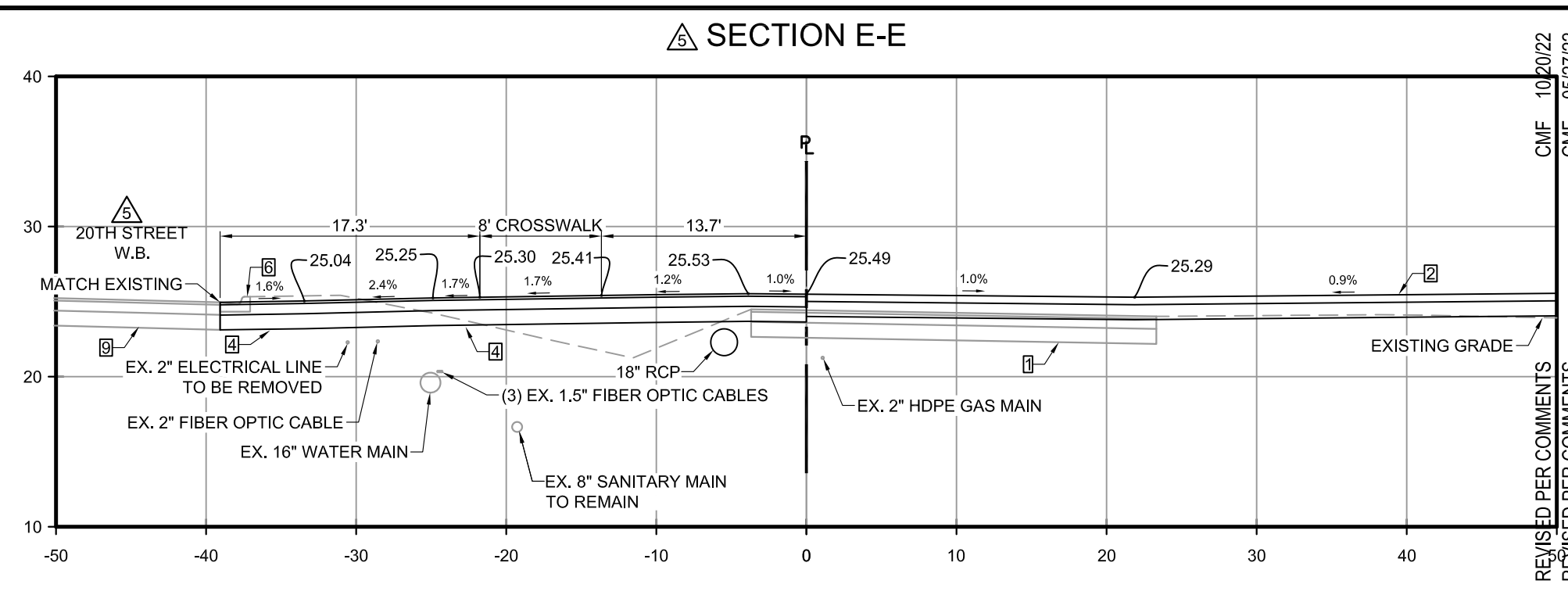
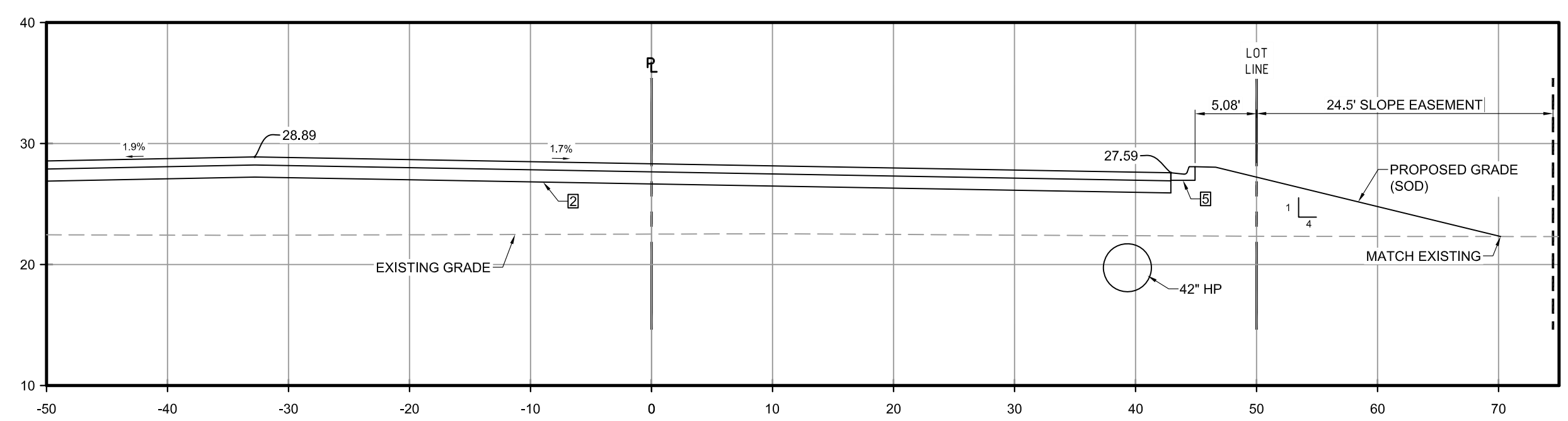
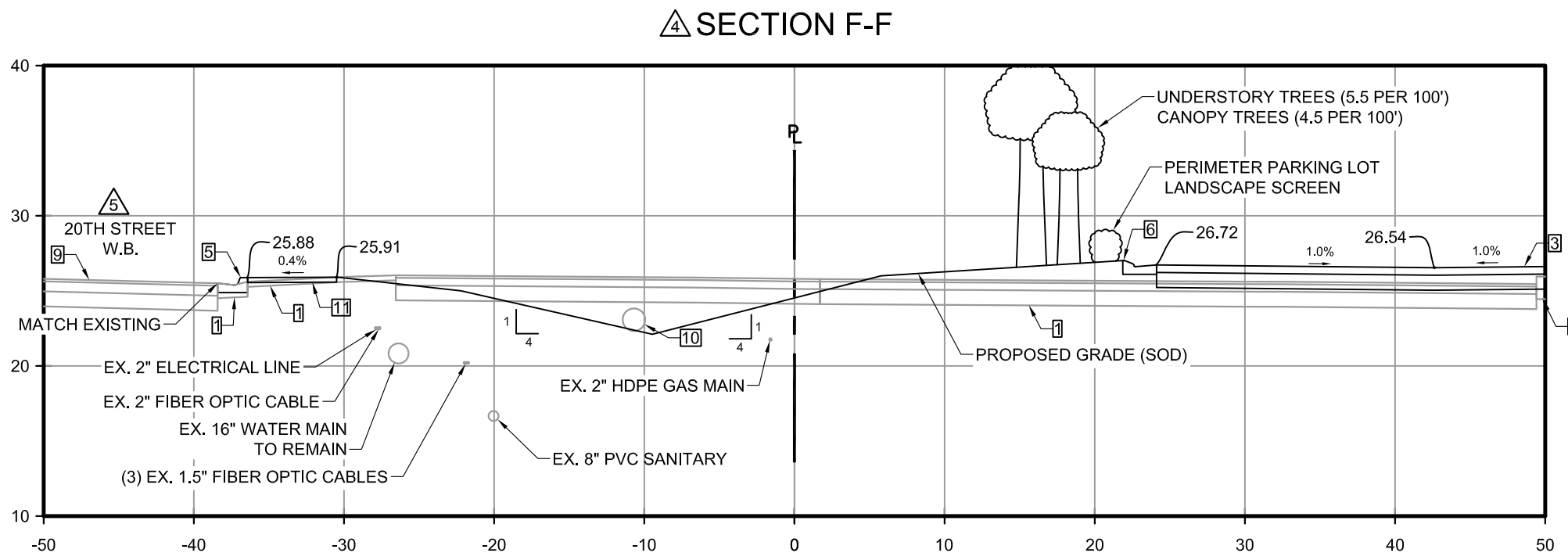
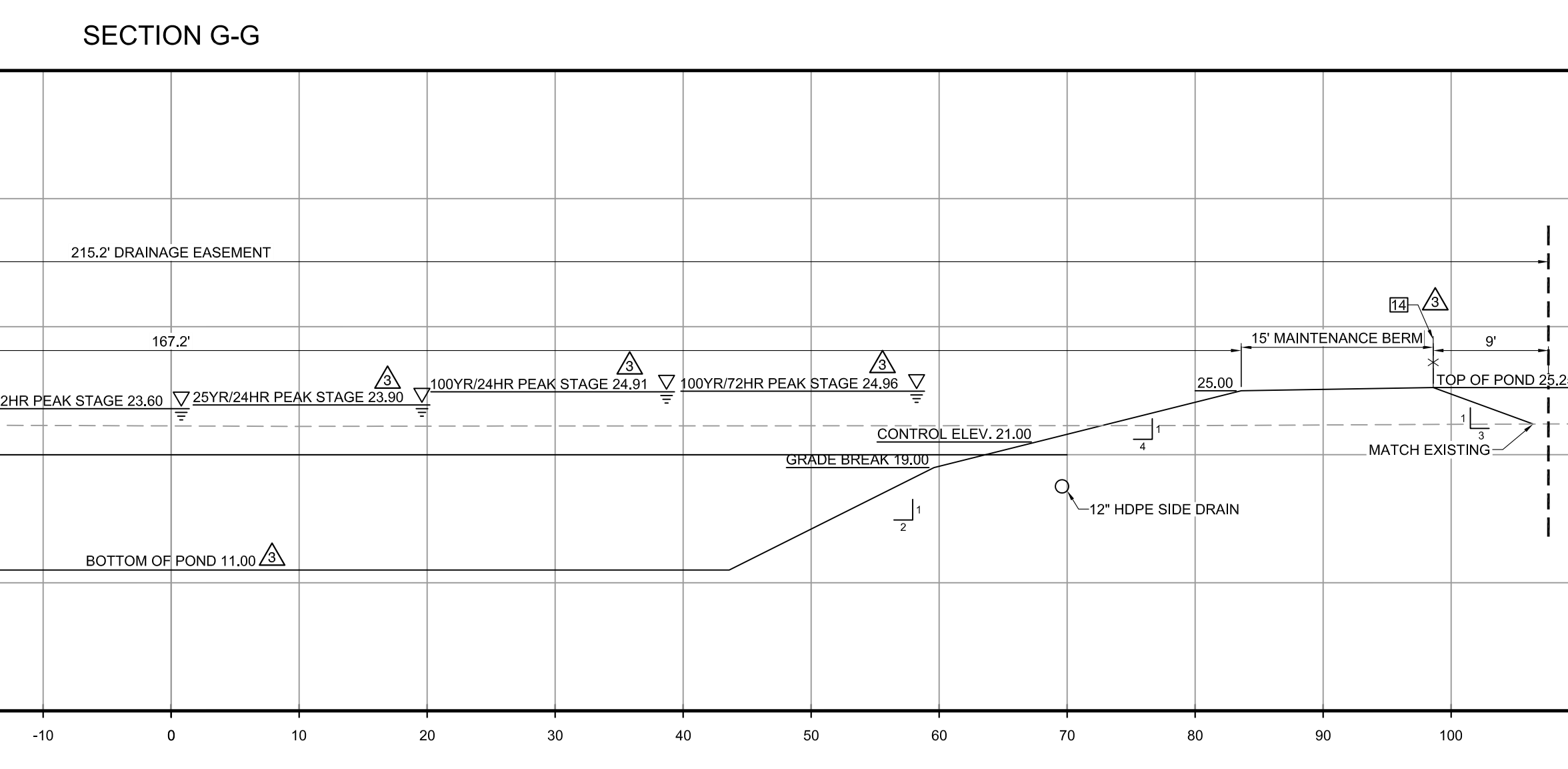
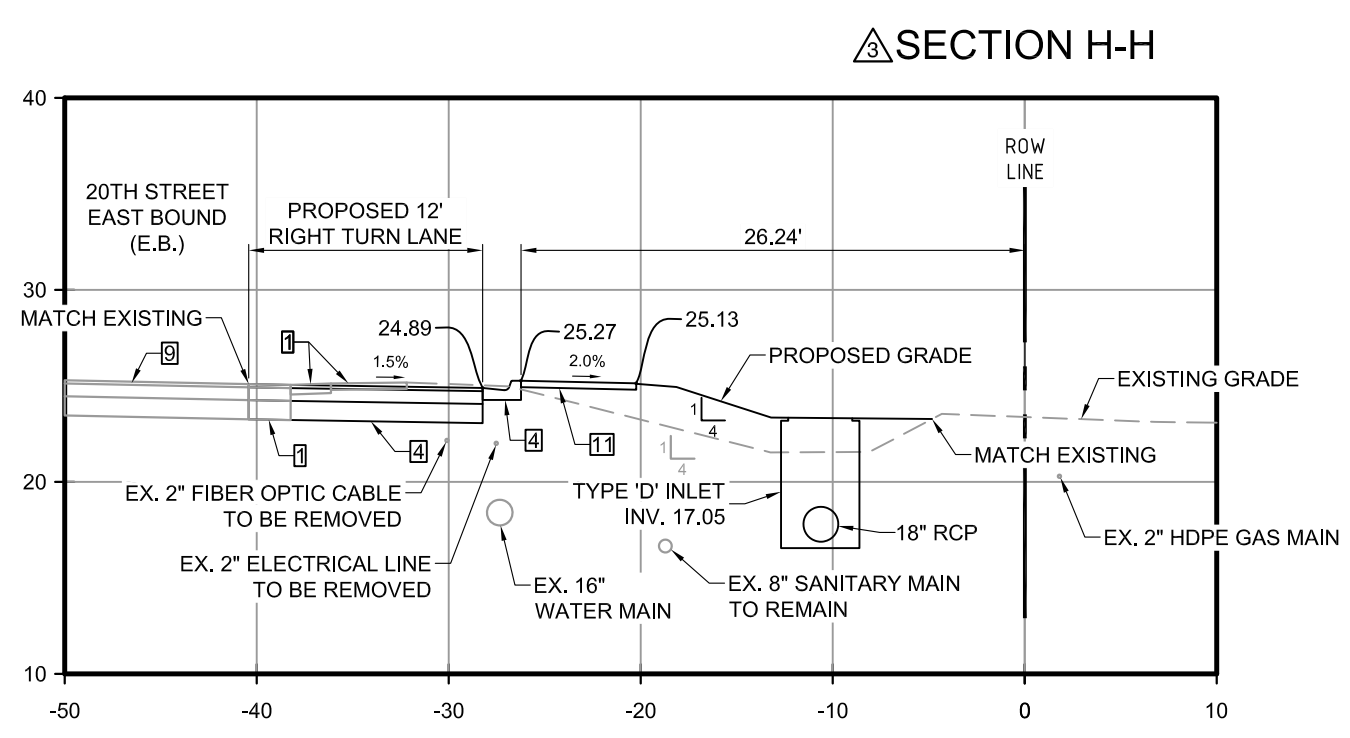
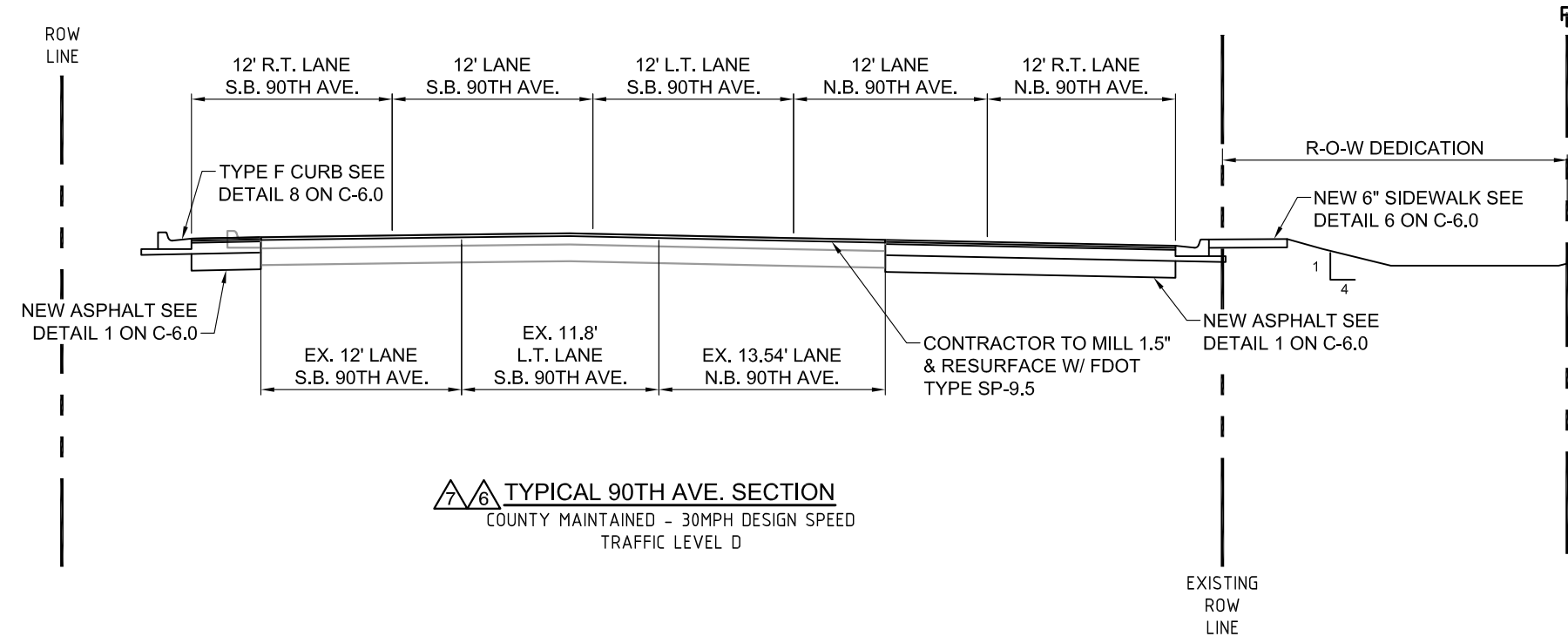
CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.



THESE PLANS ARE PREPARED IN COMPLIANCE WITH <small>PAGE 10 OF 15 (3/20/19)</small>	
TANNATH DESIGN, INC. 2484 ROSE SPRING DRIVE ORLANDO, FLORIDA 32825 (407) 982-0878 www.tannathdesign.com	BRYAN R. POTTS, P.E. FL. REG. #65461 DATE _____
THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS; ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF PETROLIUM, INC. IS PROHIBITED.	 RACETRAC PETROLEUM, INC. 200 GALLERIA PARKWAY S.E., SUITE 900 ATLANTA, GA 30339 (770) 431-7600
BUILDING CONNECTION PLAN RACETRAC #1422 - VERO BEACH 8990 20TH STREET VERO BEACH, FL 32966 INDIAN RIVER COUNTY	DRAWN-BY CMF DATE 07/01/19 SCALE 1" = 10' PROJECT NUMBER: 024-108 C-4.1 5 SHEET NO. VERSION
REVISIONS NO. DATE 1. 05/04/22 2. 12/20/21 3. 11/20/21 4. 10/31/20 5. 05/11/20 6. 11/15/19	REVISIONS NO. DATE 1. 05/04/22 2. 12/20/21 3. 11/20/21 4. 10/31/20 5. 05/11/20 6. 11/15/19

SECTION NOTE LEGEND

- 1 SAW CUT & REMOVE EXISTING CURBING, SIDEWALK & OR PAVEMENT
- 2 ON-SITE 6" PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 3 ON-SITE 6" PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 4 ASPHALT PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 5 4" CURB (SEE DETAIL 8 ON C-6.0)
- 6 ONSITE CURB (SEE DETAIL 1 ON SD1)
- 7 TRENCH DRAIN (SEE DETAIL 5 ON SD2)
- 8 EXISTING FENCE TO BE REMOVED
- 9 EXISTING CURB, SIDEWALK, & OR PAVEMENT TO REMAIN
- 10 EXISTING STORM PIPE TO BE REMOVED
- 11 6" CONCRETE SIDEWALK WITHIN FDOT ROW (SEE DETAIL 6 ON C-6.0)
- 12 EXISTING SIGN TO BE REMOVED
- 13 CONTRACTOR TO MILL 1.5" & RESURFACE W/ FDOT TYPE SP-12.5
- 14 PROPOSED 4' HIGH CHAINED LINK FENCE (SEE DETAIL 2 ON SHEET C-6.1)



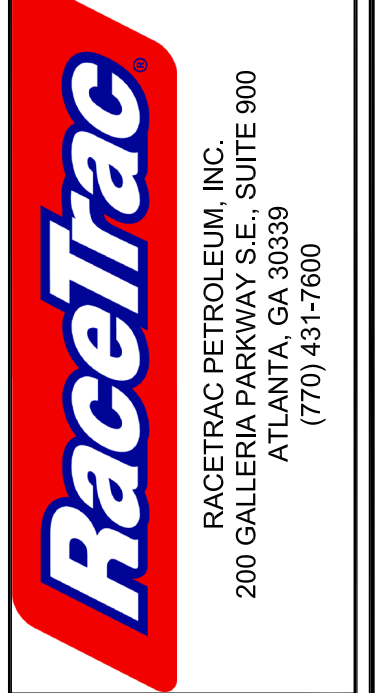
NO.	REVISIONS	DATE
1	ISSUED FOR PERMITTING	11/15/19
2	REVISED PER COMMENTS	05/11/20
3	REVISED PER COMMENTS	10/31/20
4	REVISED PER COMMENTS	12/10/20
5	REVISED PER COMMENTS	03/30/21
6	REVISED PER COMMENTS	04/29/22

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
PAGE 10 OF 15 (3/20/20)

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(407) 982-9878
www.tannathdesign.com

BRYAN R. POTTS, P.E.
FL. REG. #59461
FL. CERT. OF AUTH. #27199

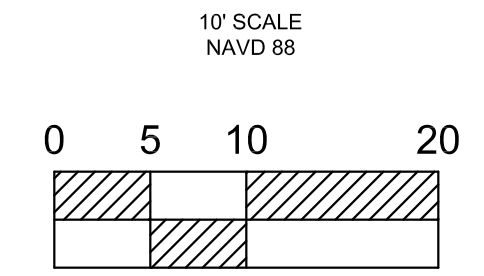
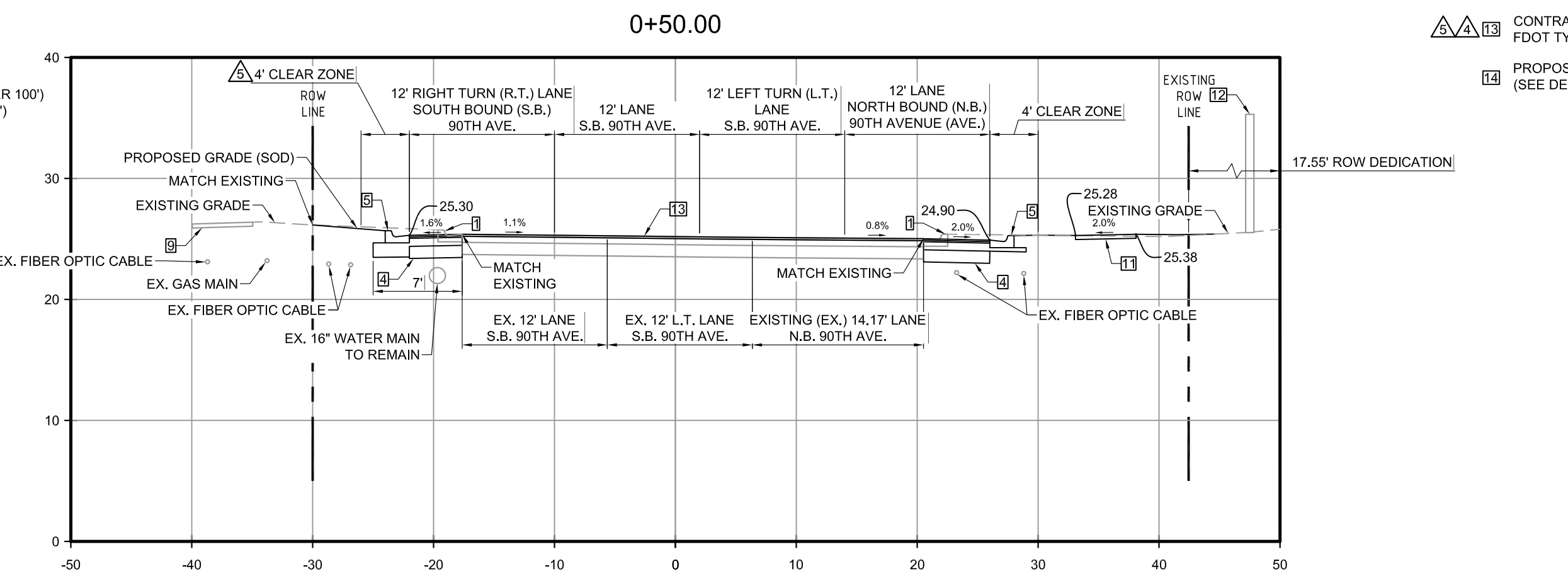
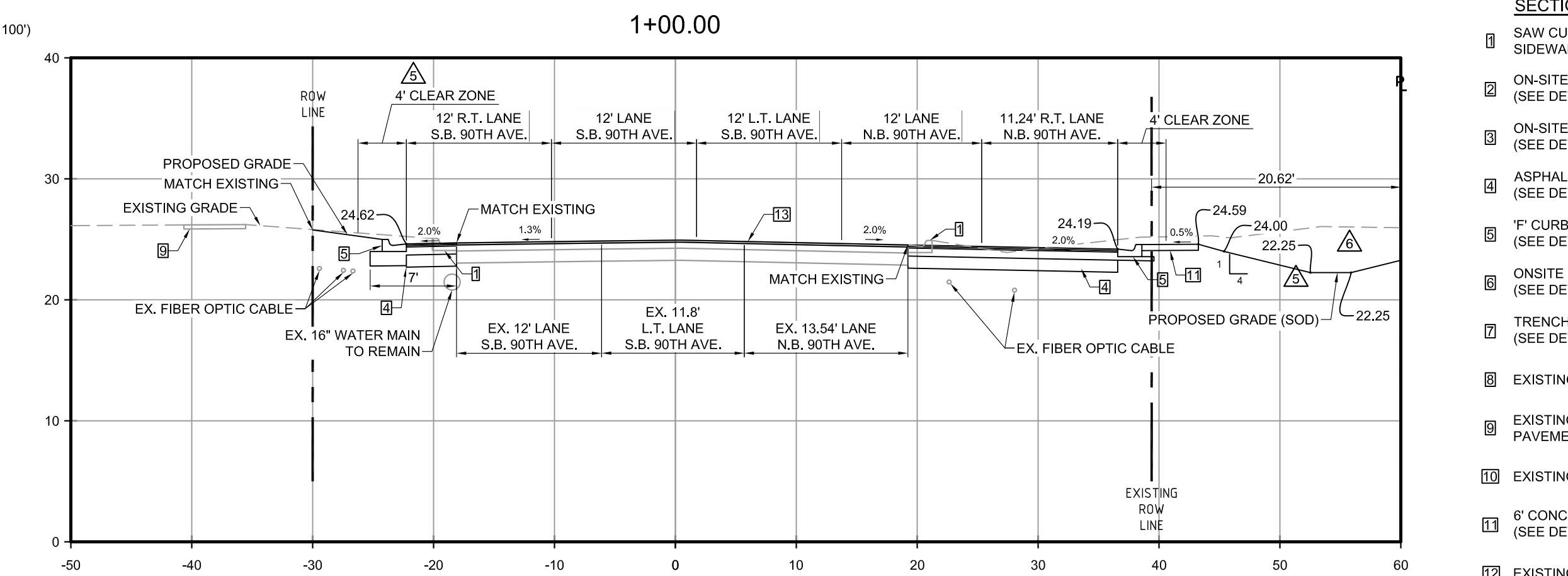
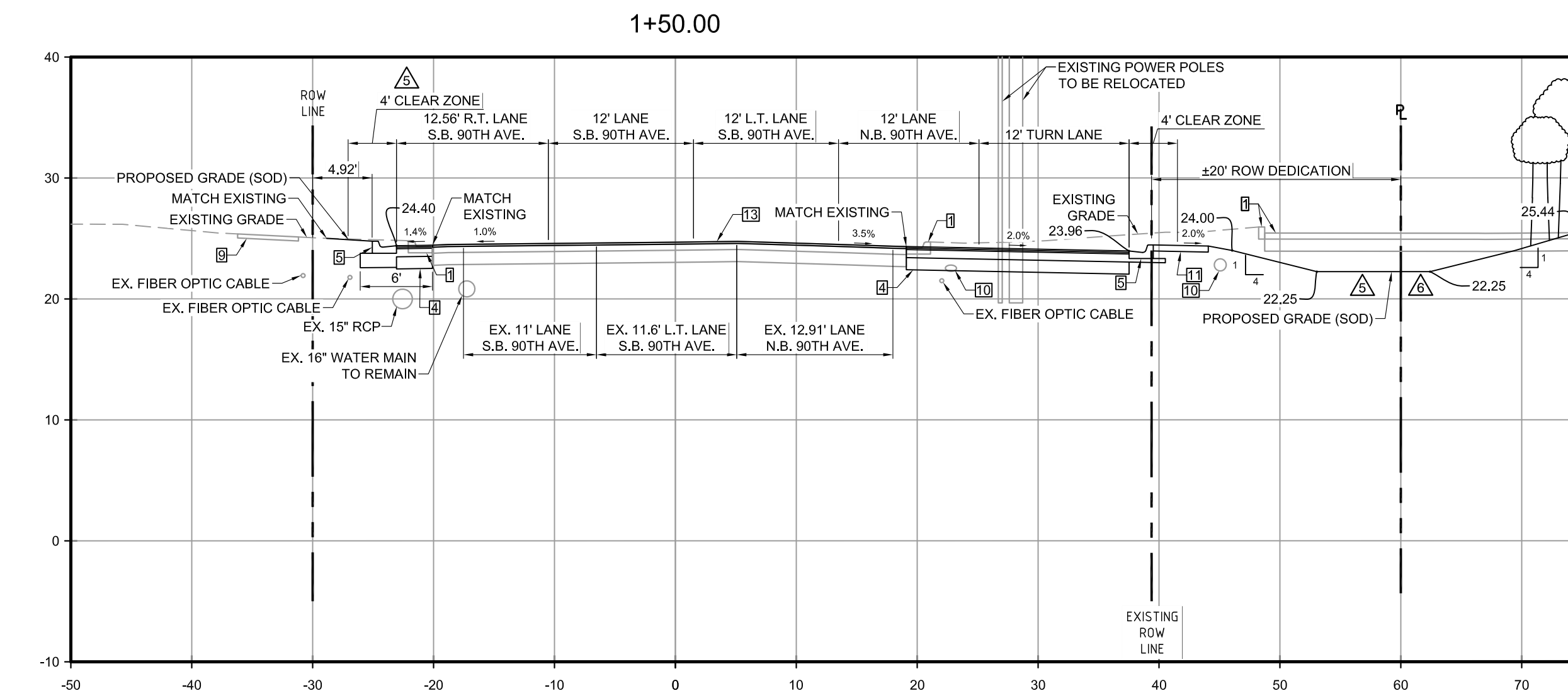
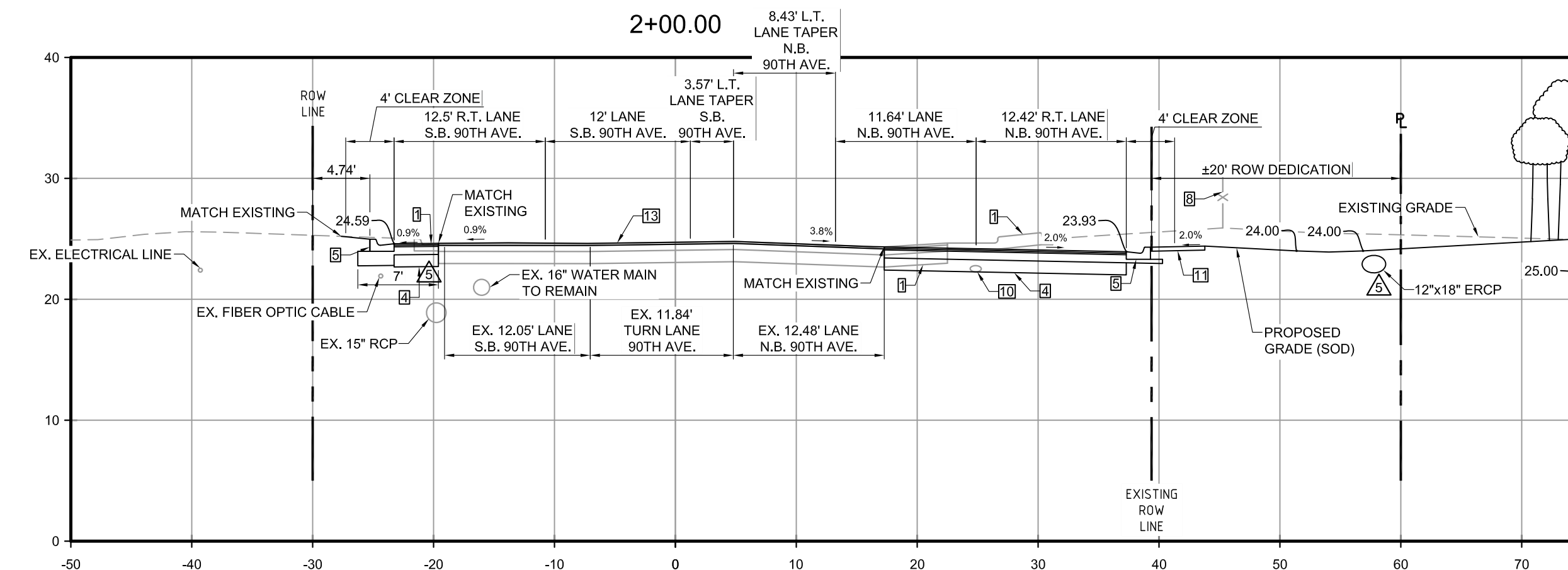
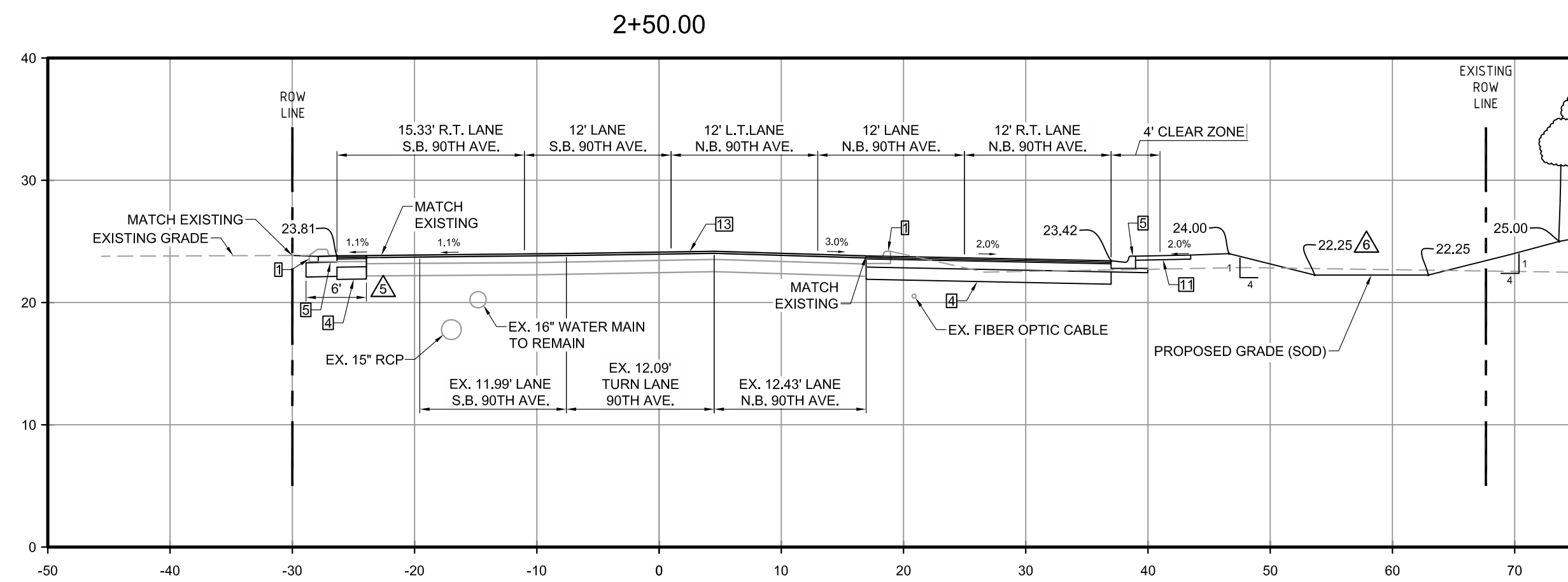
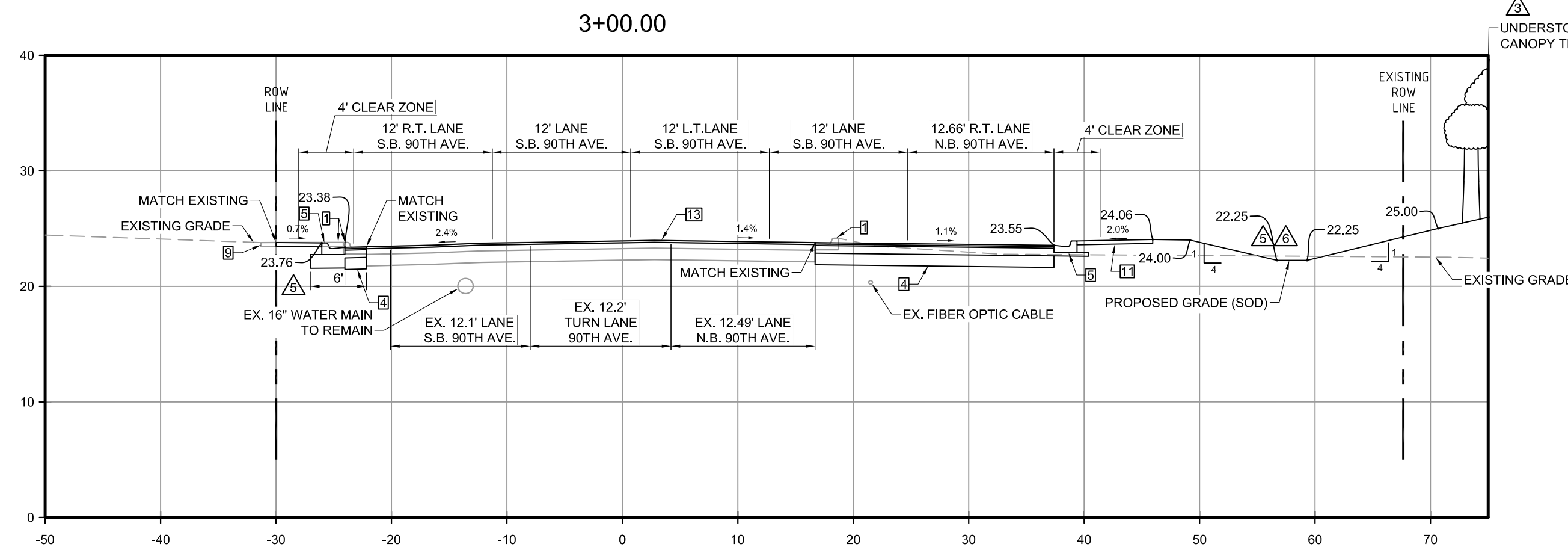
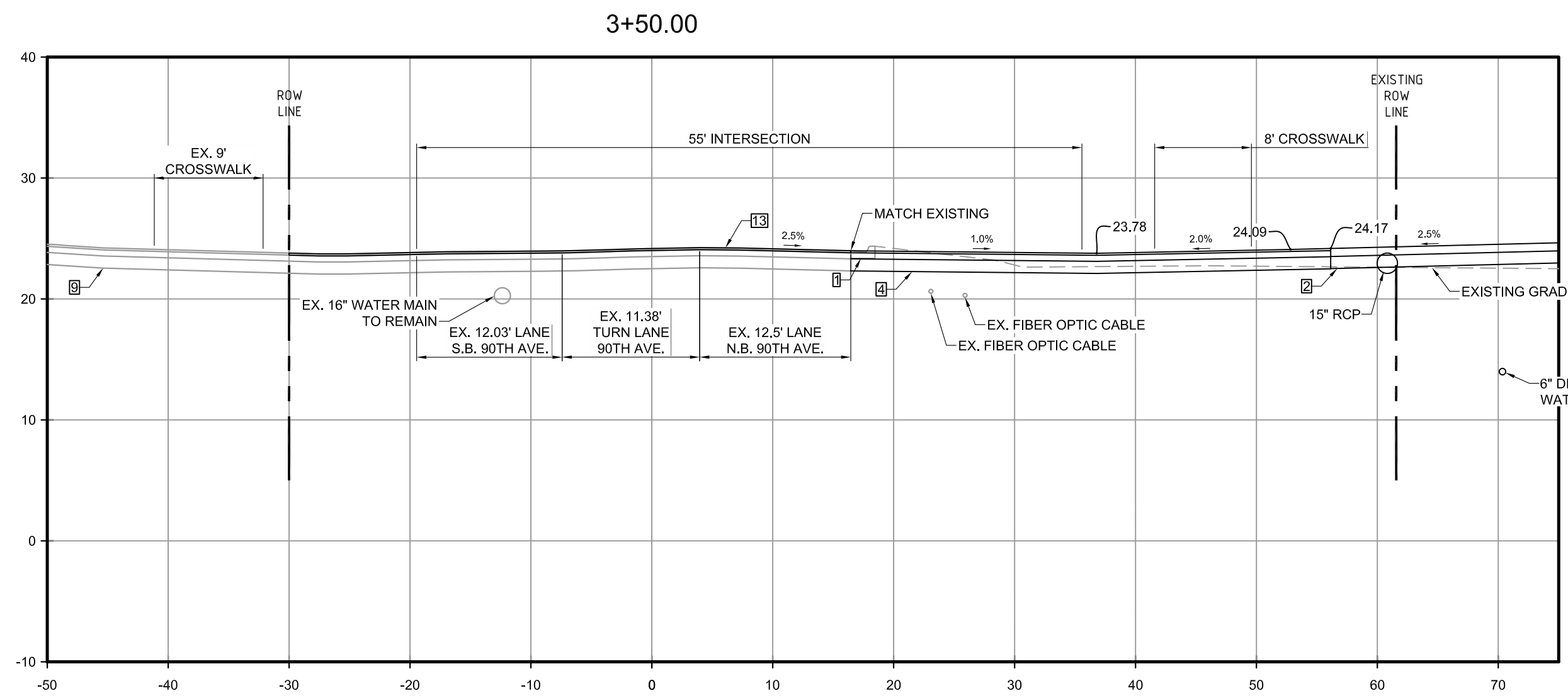
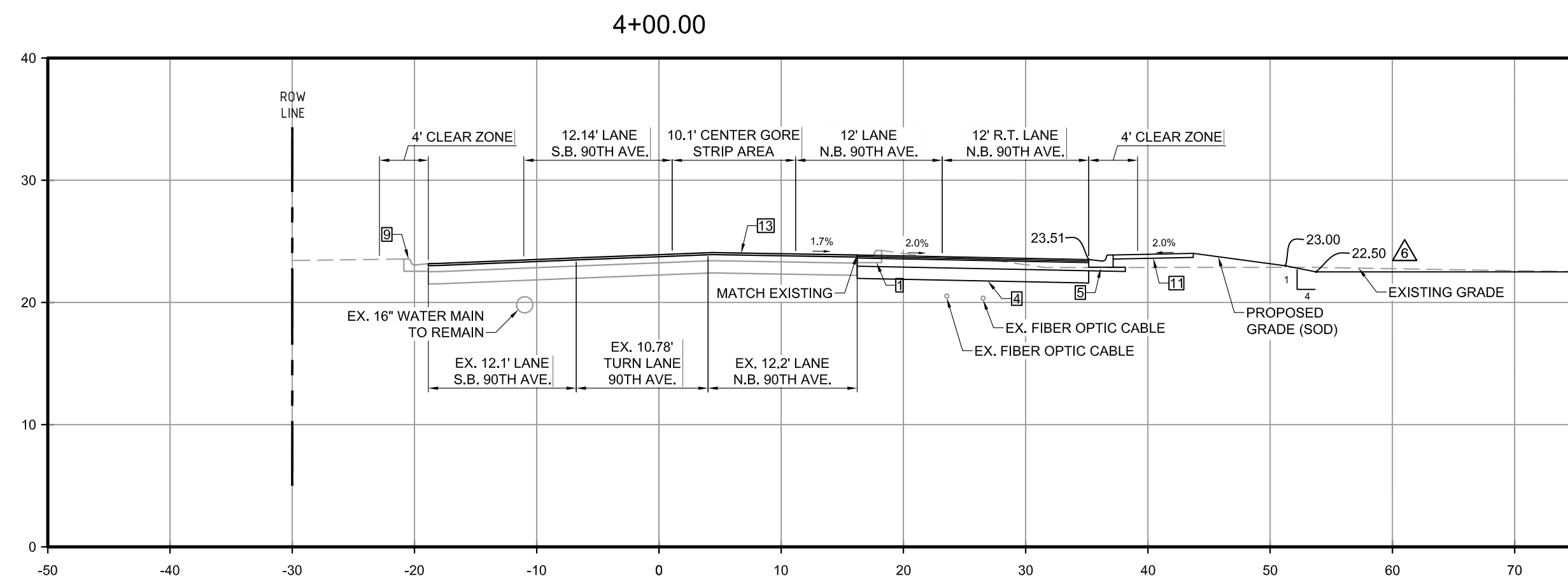
PROHIBITED.



SITE CROSS SECTIONS	
RACETRAC #1422 - VERO BEACH	
8990 20TH STREET VERO BEACH, FL 32966 INDIAN RIVER COUNTY	
DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 10'
PROJECT NUMBER:	024-108
C-5.0	8
SHEET NO.	VERSION



CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.



- SECTION NOTE LEGEND**
- 1 SAW CUT & REMOVE EXISTING CURBING, SIDEWALK &/OR PAVEMENT
 - 2 ON-SITE 8\"/>



NOTES:
 1. FULL BASE MATERIAL TO EXTEND A MINIMUM OF 1' BEYOND ALL WIDENING ACTIVITIES TO MEET A MINIMUM TOTAL WIDENING OF 6'.
 2. ALL DIMENSIONS BASED ON EXISTING STRIPING AND EDGE OF PAVEMENT LOCATIONS AS THERE IS NO PREVIOUSLY ESTABLISHED SURVEY CENTERLINE FOR 90TH AVE.
 3. STATIONING SHOWN HERE IS AS SHOWN ON SHEETS C-2.0, C-3.5 AND C-5.4.

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

09/30/22	CMF	REVISED PER COUNTY COMMENTS	BY	DATE
04/29/22	CMF	REVISED PER FOOT COMMENTS		
03/30/21	CMF	REVISED PER FOOT COMMENTS		
07/06/21	CMF	REVISED PER COMMENTS		
10/31/20	CMF	REVISED PER COMMENTS		
05/11/20	CMF	REVISED PER COMMENTS		
11/19/19	BRP	ISSUED FOR PERMITTING		
		REVISIONS		
		NO.		

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
PAGE 10 OF 16 (3/28/2019)

TANNATH DESIGN, INC.
 2484 ROSE SPRING DRIVE
 ORLANDA, FLORIDA 32825
 (407) 982-9878
 www.tannathdesign.com
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 FL. CERT. OF AUTH. #27199

Racetrac
 RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

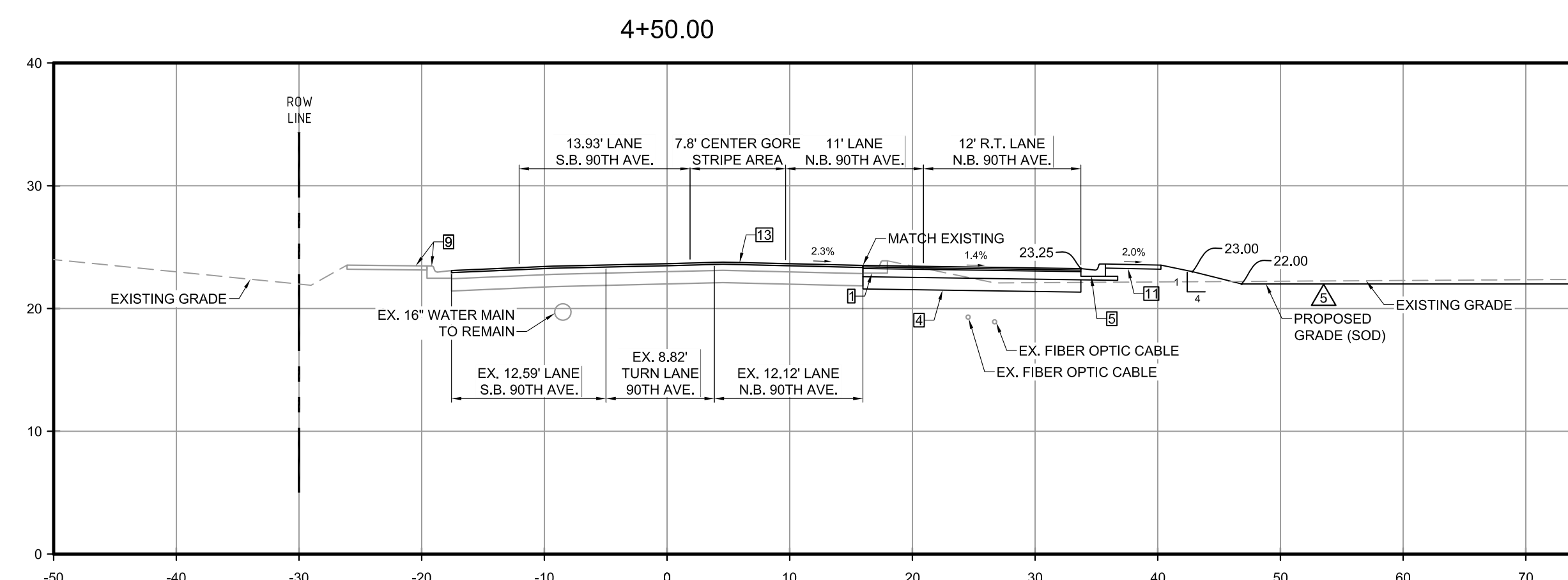
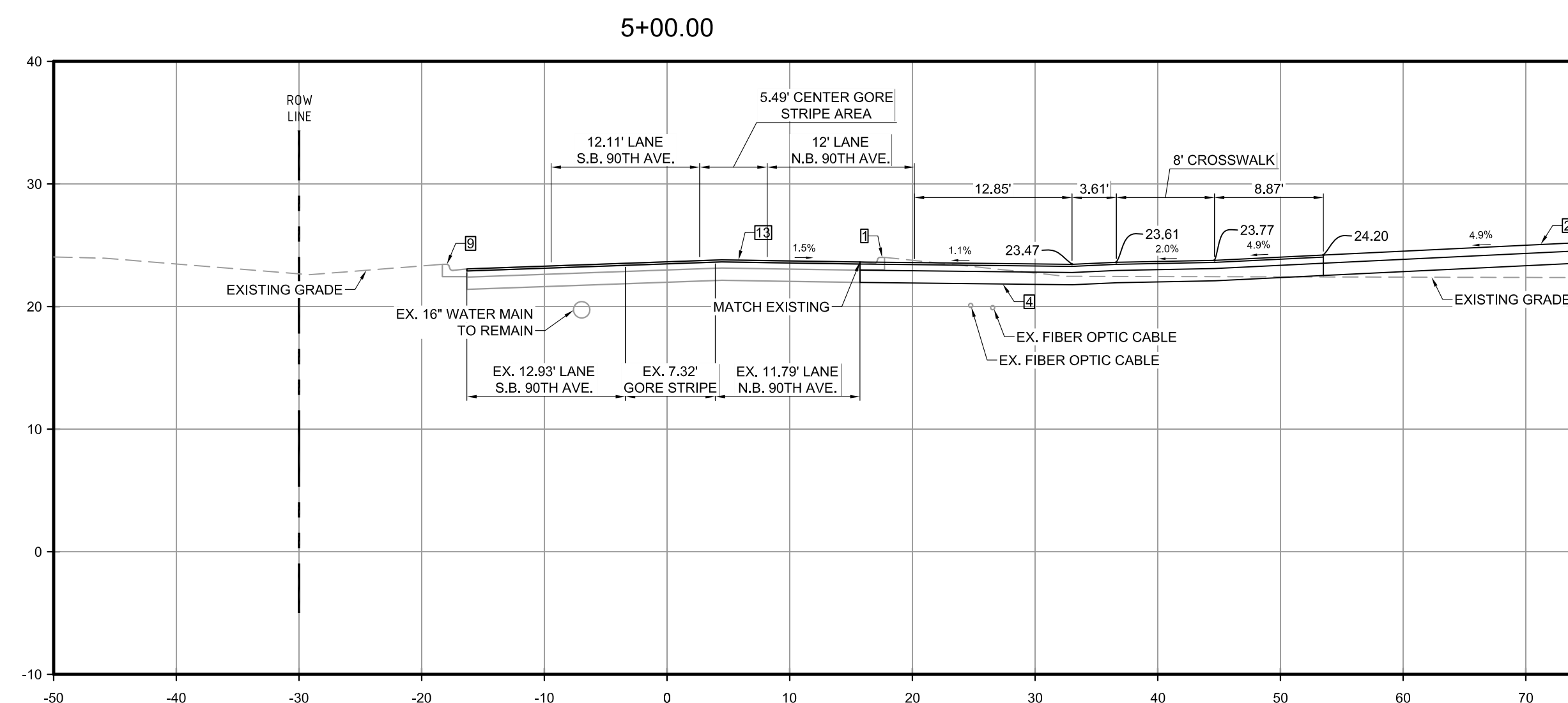
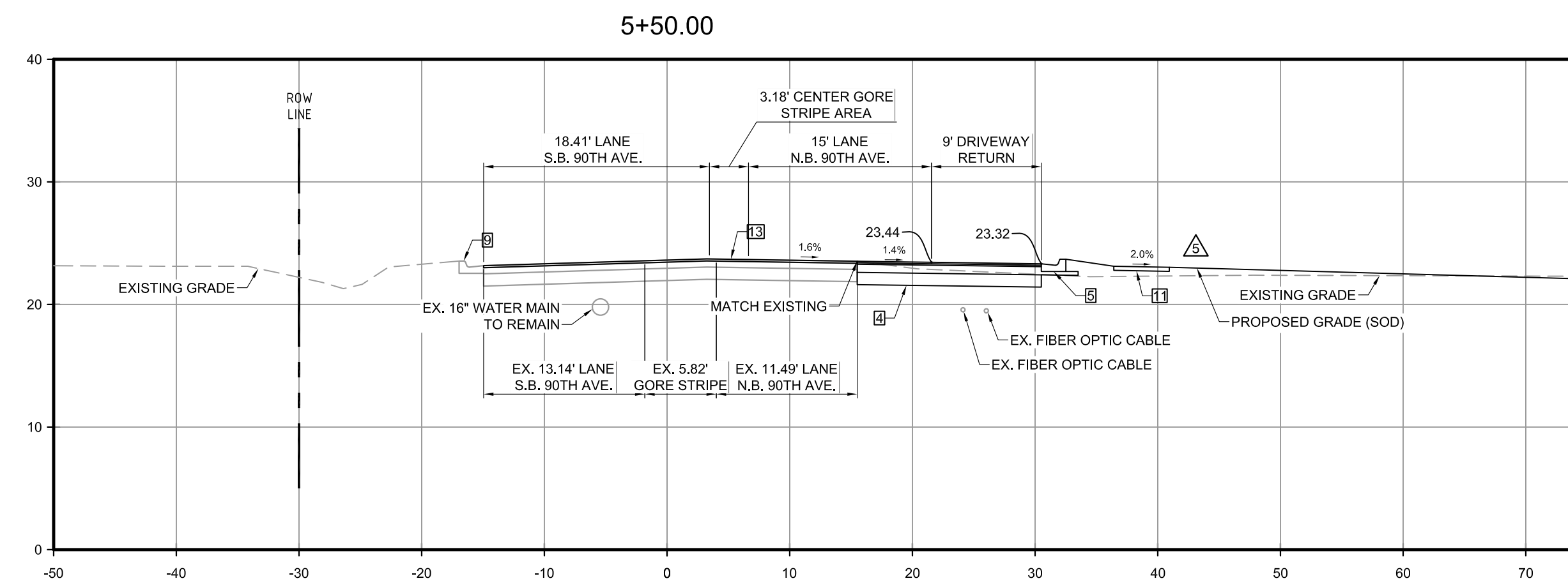
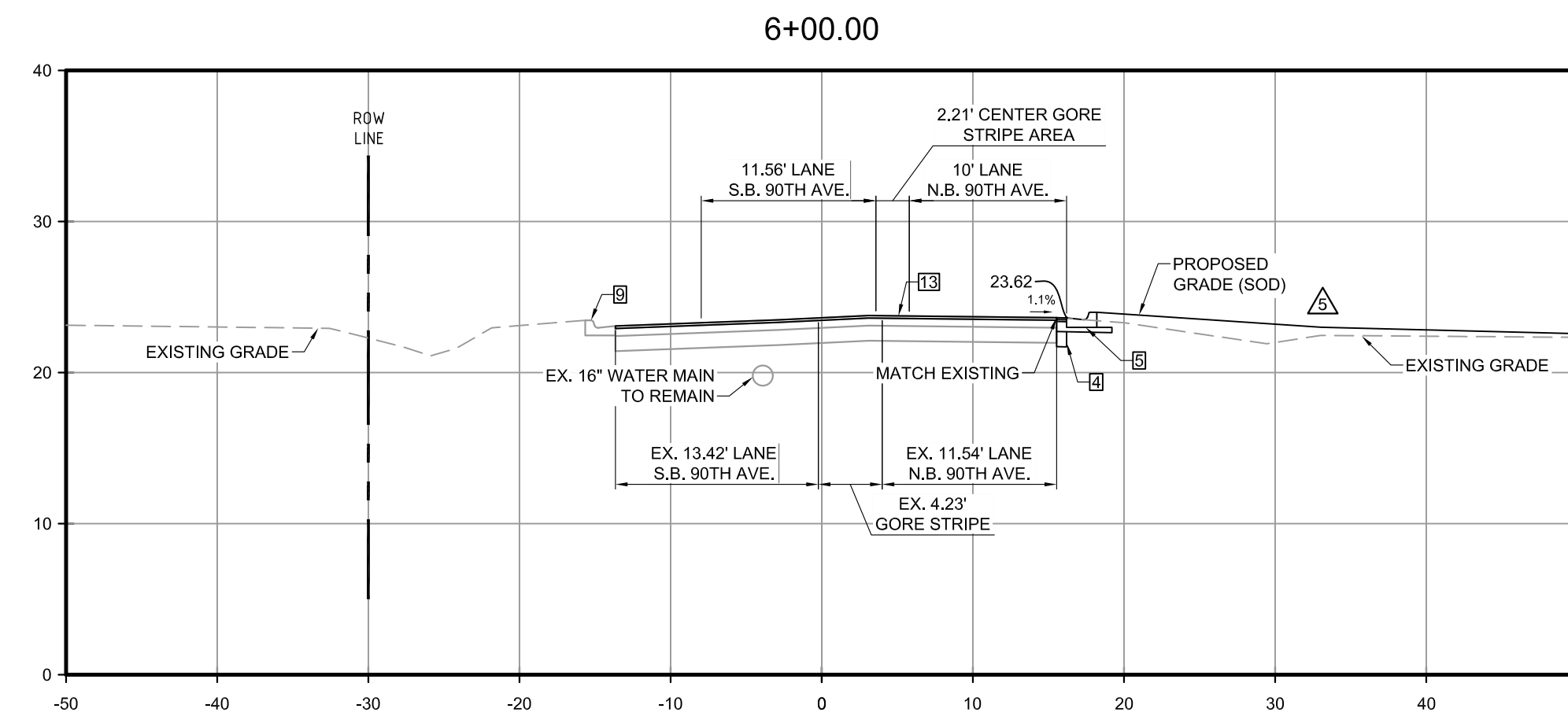
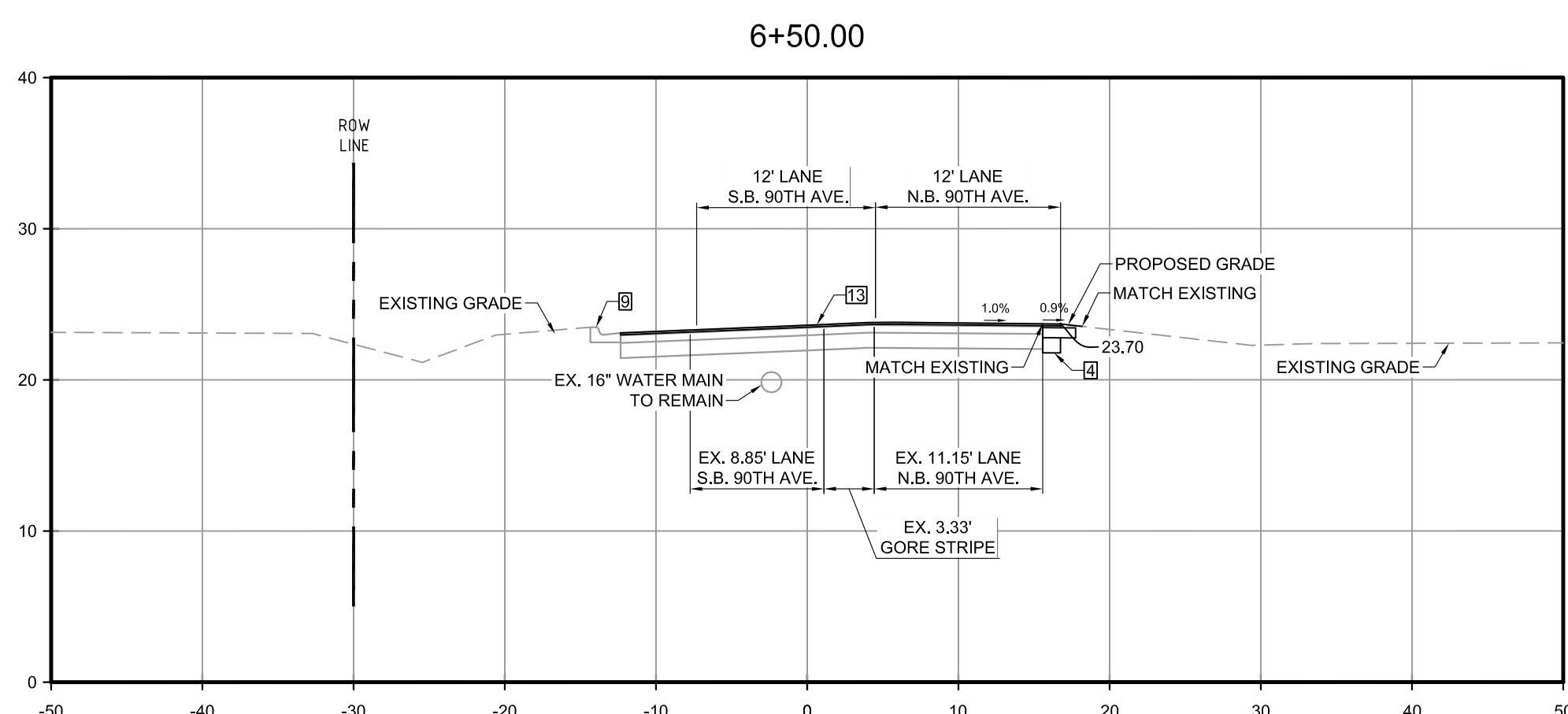
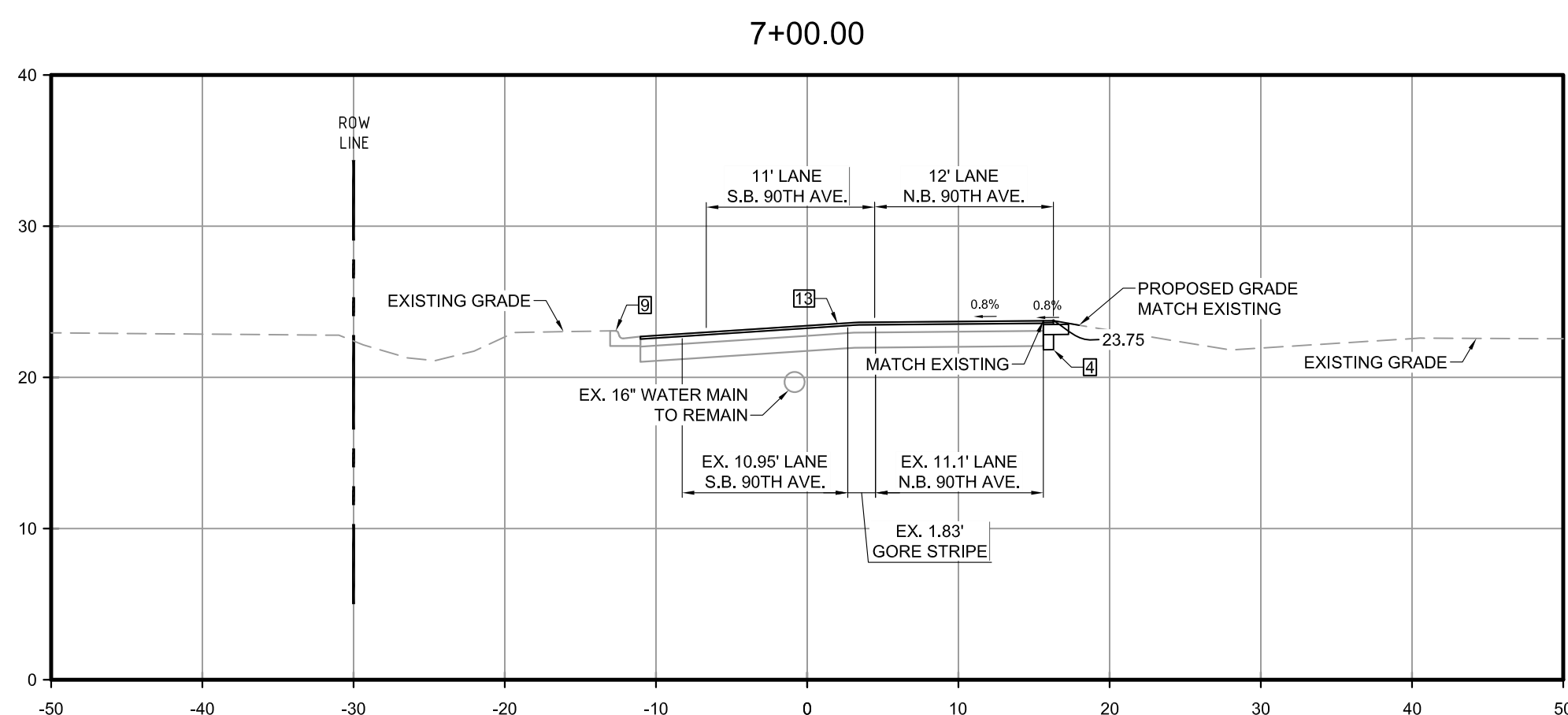
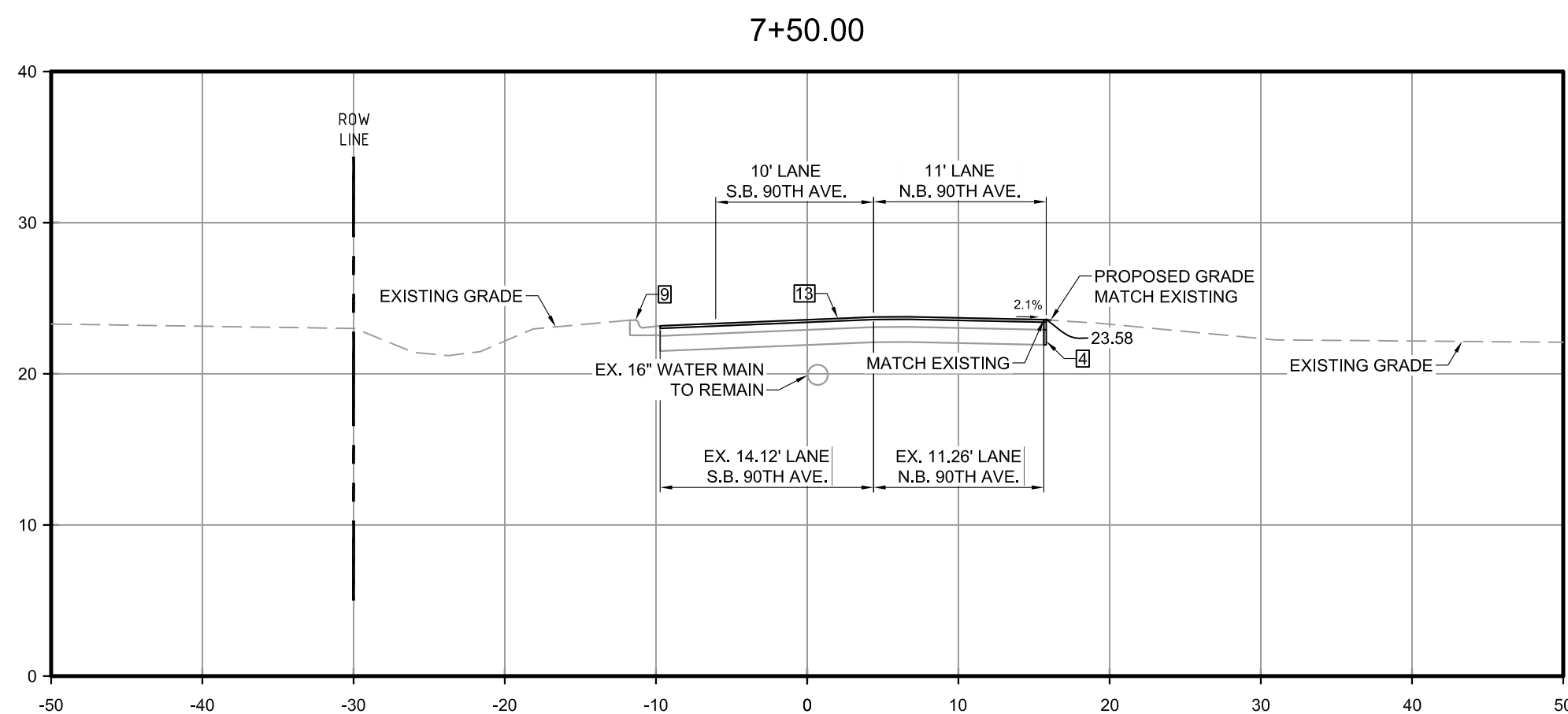
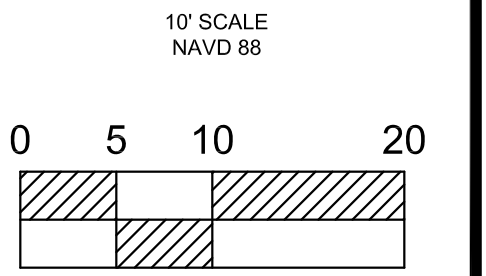
Sunshine 811

90TH AVE CROSS SECTIONS
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY: CMF
 DATE: 07/01/19
 SCALE: 1" = 10'
 PROJECT NUMBER: 024-108
C-5.1 6
 SHEET NO. VERSION

SECTION NOTE LEGEND

- 1 SAW CUT & REMOVE EXISTING CURBING, SIDEWALK &/ OR PAVEMENT
- 2 ON-SITE 8" PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 3 ON-SITE 6" PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 4 ASPHALT PAVEMENT (SEE DETAIL 1 ON C-6.0)
- 5 4" CURB (SEE DETAIL 8 ON C-6.0)
- 6 ON-SITE CURB (SEE DETAIL 1 ON SD1)
- 7 TRENCH DRAIN (SEE DETAIL 5 ON SD2)
- 8 EXISTING FENCE TO BE REMOVED
- 9 EXISTING CURB, SIDEWALK, &/ OR PAVEMENT TO REMAIN
- 10 EXISTING STORM PIPE TO BE REMOVED
- 11 6" CONCRETE SIDEWALK WITHIN FDOT ROW (SEE DETAIL 6 ON C-6.0)
- 12 EXISTING SIGN TO BE REMOVED
- 13 CONTRACTOR TO MILL 1.5" & RESURFACE W/ FDOT TYPE SP-9.5
- 14 PROPOSED 4' HIGH CHAINED LINK FENCE (SEE DETAIL 2 ON SHEET C-6.1)



- NOTES:**
1. BASE MATERIAL TO EXTEND A MINIMUM OF 1' BEYOND ALL WIDENING ACTIVITIES TO MEET A MINIMUM TOTAL WIDENING OF 6'.
 2. ALL DIMENSIONS BASE ON EXISTING STRIPING AND EDGE OF PAVEMENT LOCATIONS AS THERE IS NO PREVIOUSLY ESTABLISHED SURVEY CENTERLINE FOR 90TH AVE.
 3. STATIONING SHOWN HERE IS AS SHOWN ON SHEETS C-2.0, C-3 AND C-5.4.

CONTACT RACETRAC PETROLEUM, INC. PROJECT MANAGER PRIOR TO ANY REVISIONS TO THE PLAN SUPPLIED BY RACETRAC PETROLEUM, INC.

NO.	REVISIONS	DATE	BY
1	REVISED PER COUNTY COMMENTS	04/29/22	SCP
2	REVISED PER FOOT COMMENTS	03/30/21	CMF
3	REVISED PER COMMENTS	07/06/21	CMF
4	REVISED PER COMMENTS	10/31/20	SCP
5	REVISED PER COMMENTS	05/11/20	CMF
6	ISSUED FOR PERMITTING	11/19/19	BRP

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
PAGE 10 OF 15 (3/20/2019)

TANNATH DESIGN, INC.
2484 ROSE SPRING DRIVE
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(407) 982-9878
www.tannathdesign.com

BRYAN R. POTTS, P.E.
FL. REG. #59461

DATE

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200 GALLERIA PARKWAY S.E., SUITE 900
ATLANTA, GA 30339
(770) 431-7600

90TH AVE CROSS SECTIONS

RACETRAC #1422 - VERO BEACH

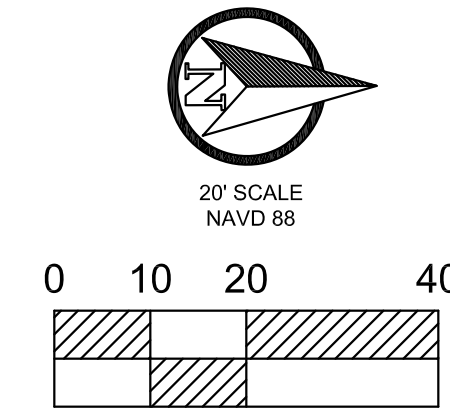
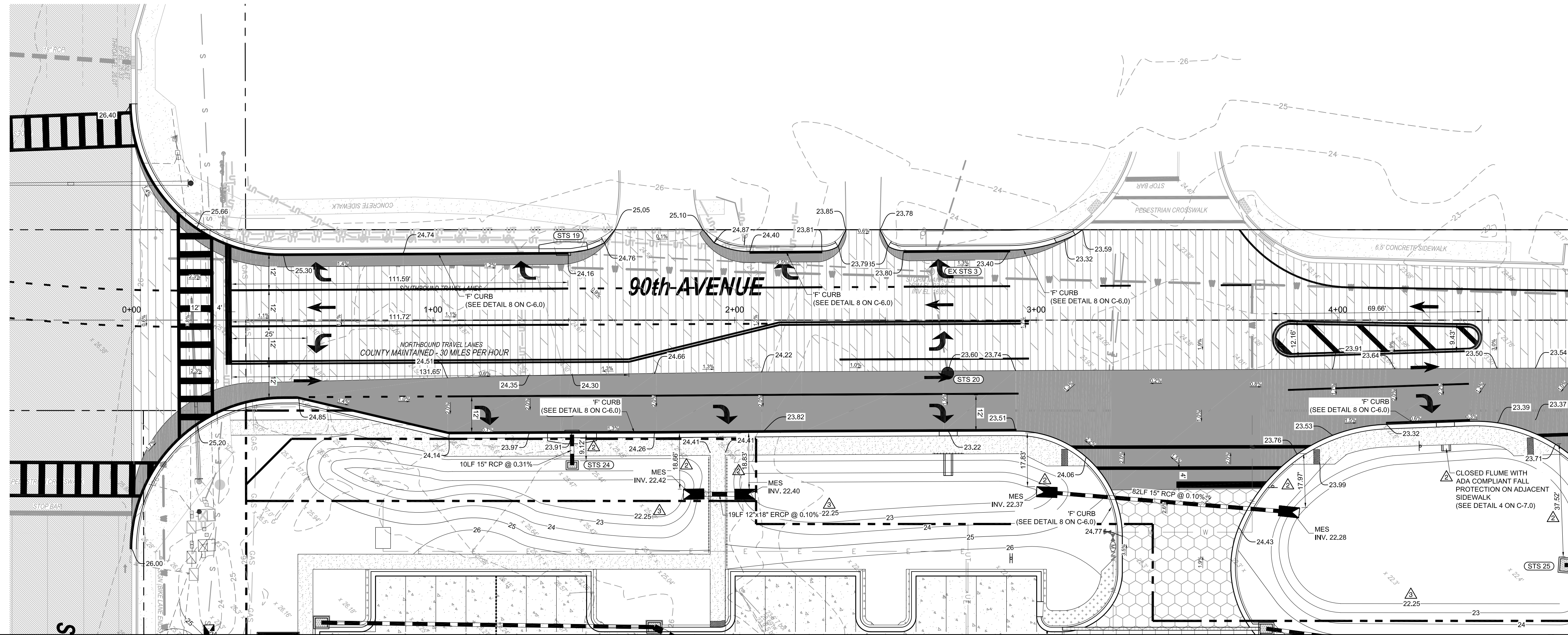
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY: CMF
DATE: 07/01/19
SCALE: 1" = 10'
PROJECT NUMBER: 024-108

C-5.2 **5**

SHEET NO. VERSION





90TH AVE DESIGN SPECIAL REQUIREMENTS

DESIGN SPEED: 30 MPH
 LEFT TURN LANE LENGTH: 131.65'
 TURN LANE AND SIGNAL DESIGN CRITERIA: PER TRAFFIC STUDY

CLEAR ZONE:
 CURBED AREAS: 4'
 RURAL AREAS: 18'

EXISTING PAVEMENT CONDITION: BASED ON RECENT CONSTRUCTION DATA
 TRAFFIC LEVEL: D
 SP PAVEMENT DESIGN: SP-12.5
 TRAFFIC LEVEL DETERMINATION: BASED ON RECENT CONSTRUCTION DATA

- NOTES:**
- THE PROJECT WILL REQUIRE IRC ENGINEERING INSPECTIONS AT PREDEFINED INTERVALS AS REQUESTED AND ATTENDED BY THE EOR. AS-BUILTS, TEST RESULTS AND INSPECTION REPORTS ARE REQUIRED PRIOR TO ISSUANCE OF THE CO. (890.12)(1)(D))
 - IRC INSPECTIONS ARE PERIODIC AND ARE FOR CHECKING THAT THE WORK IS PERFORMED IN GENERAL CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. THE EOR IS RESPONSIBLE FOR ALL QUALITY CONTROL AS IT RELATES TO THE PROJECT INCLUDING THE RIGHT OF WAY. A CONSTRUCTION SCHEDULE WILL BE REQUIRED AT THE PRECONSTRUCTION MEETING FOR OFFSITE WORK.
 - ALL TESTING OF MATERIALS AND COMPACTION TO BE PERFORMED IN ACCORDANCE WITH FDOT STANDARDS.
 - CONTRACTOR TO COORDINATE WITH COUNTY TRAFFIC ENGINEERING ON TTCF.
 - NO LANDSCAPING OR TREES, OTHER THAN SOD, IS ALLOWED IN THE R-O-W.
 - ALL PAVEMENT MARKINGS TO BE ACCORDANCE WITH FDOT INDEX 711.001.
 - ALL CONSTRUCTION MATERIAL AND METHODS, SHALL MEET THE CURRENT EDITIONS OF THE DESIGN STANDARDS, THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AND THE UTILITY ACCOMMODATION MANUAL.
 - THERMOPLASTIC PAVEMENT MARKINGS SHALL BE REQUIRED WITHIN THE COUNTY ROW, ON EXISTING/PROPOSED DRIVEWAYS THAT CONNECT TO THE COUNTY ROW, AND PROPOSED PAVEMENT MARKINGS WITHIN 25' OF THE COUNTY ROW.

NO.	REVISIONS	DATE	BY
1	ISSUED FOR PERMITTING	11/15/19	BRP
2	ADDED SHEET PER COMMENTS	04/29/22	SCP
3	REVISED PER COMMENTS	05/25/22	CMF
4	REVISED PER COMMENTS	09/30/22	CMF

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
 FAC 19-03.000(8)

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 (407) 982-9878
 www.tannathdesign.com
 FL. REG. #59461
 FL. CERT. OF AUTH. #27199

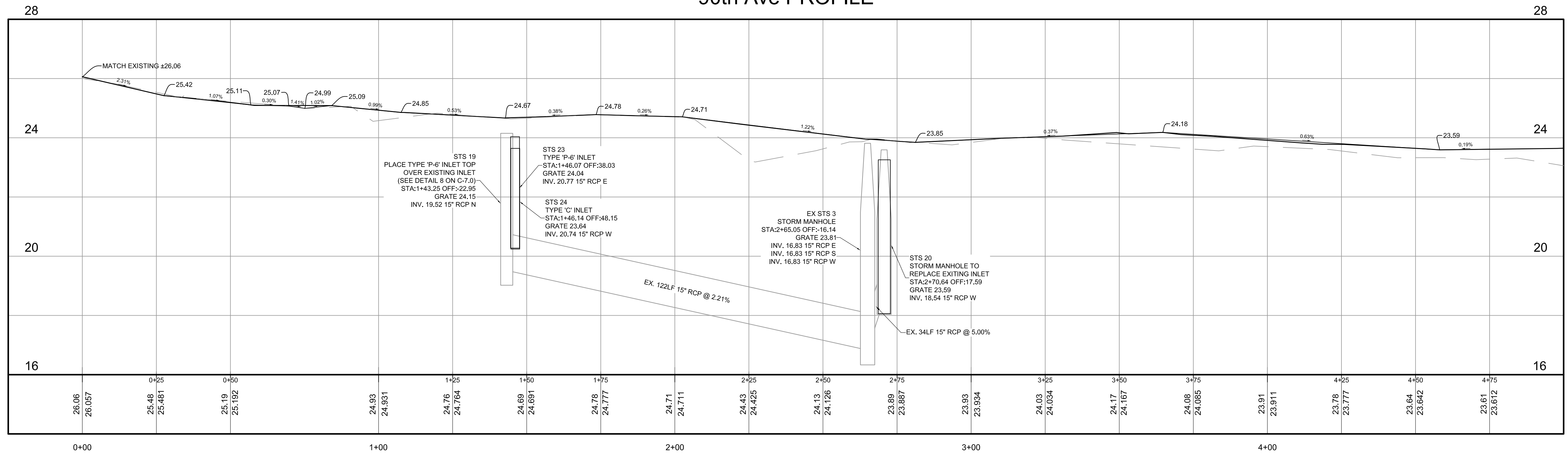
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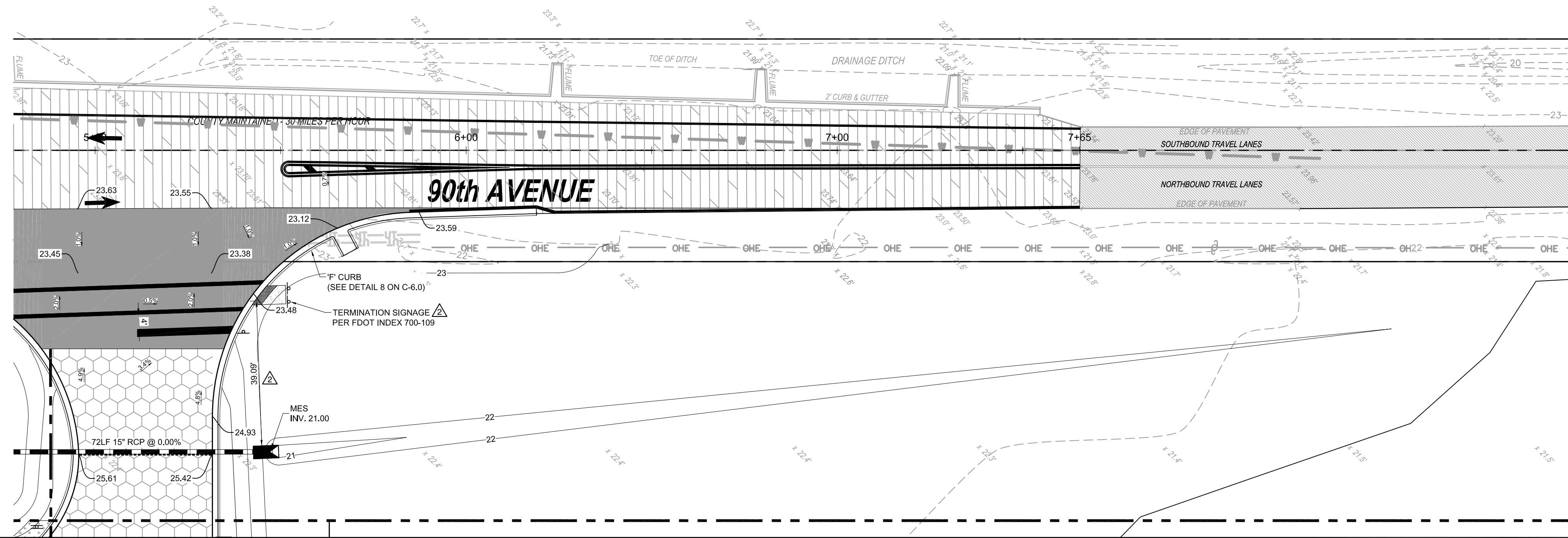
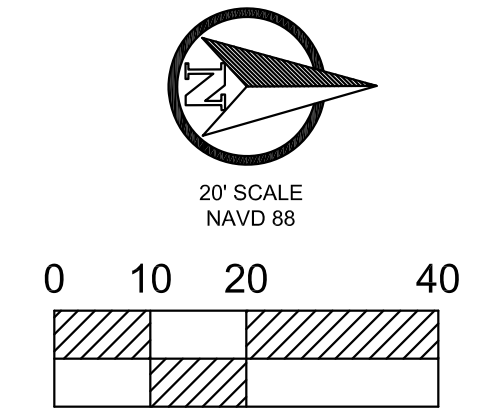
RACETRAC PETROLEUM, INC.
 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

90TH AVE PLAN AND PROFILE
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 20'
PROJECT NUMBER:	024-108
C-5.3	3
SHEET NO.	VERSION

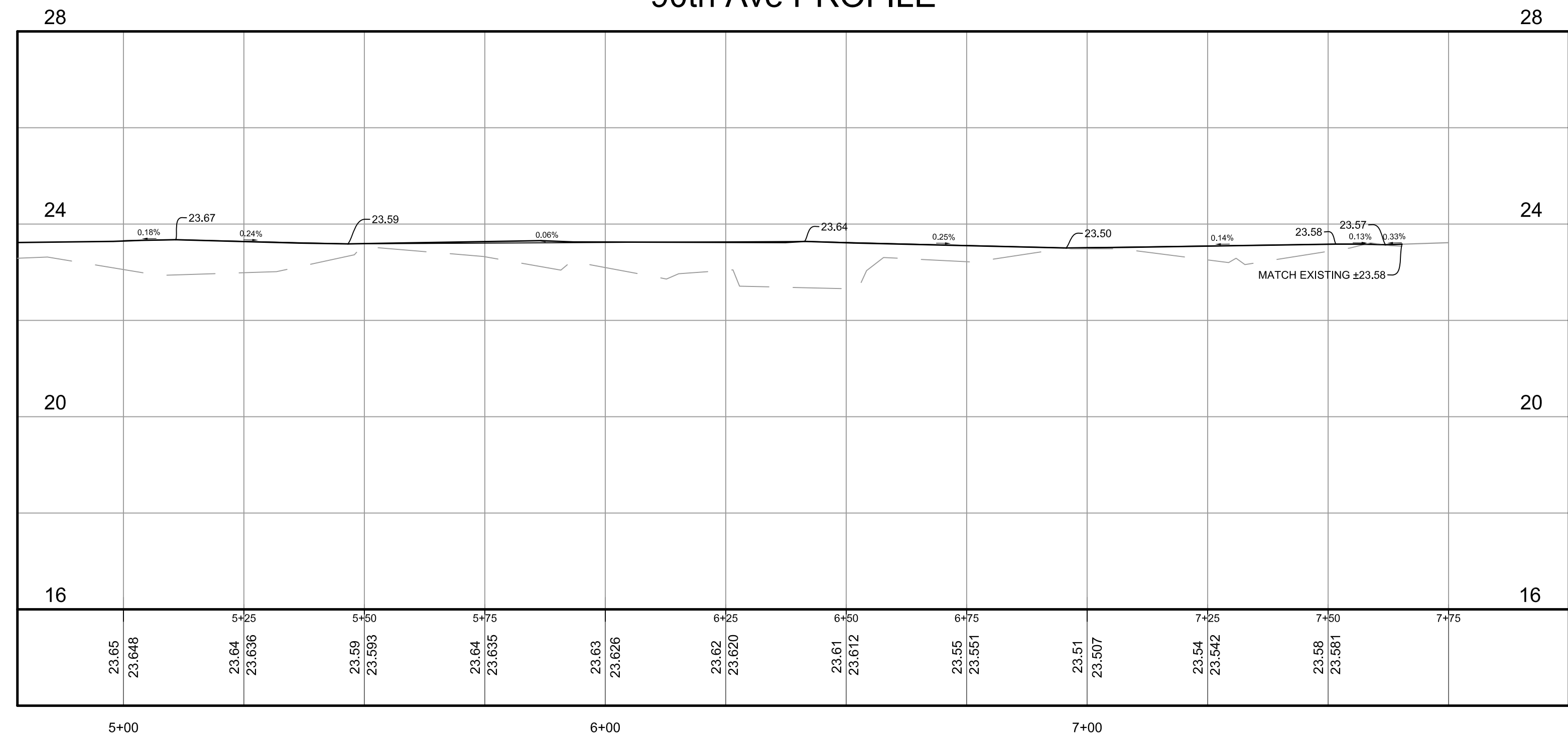
90th Ave PROFILE





NOTE:
NO LANDSCAPING OR TREES, OTHER THAN SOD, IS ALLOWED IN THE R-O-W.

90th Ave PROFILE



NO.	REVISIONS	BY	DATE
1	ISSUED FOR PERMITTING	BRP	11/15/19
2	ADDED SHEET PER COMMENTS	SCP	04/29/22
3	ADDED SHEET PER COMMENTS	SCP	05/25/22

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
FAC 10 (F.S. 328.01)

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ORLANDA, FLORIDA 32825
(407) 982-0878
www.tannathdesign.com
FL. REG. #59461
FL. CERT. OF AUTH. #27199

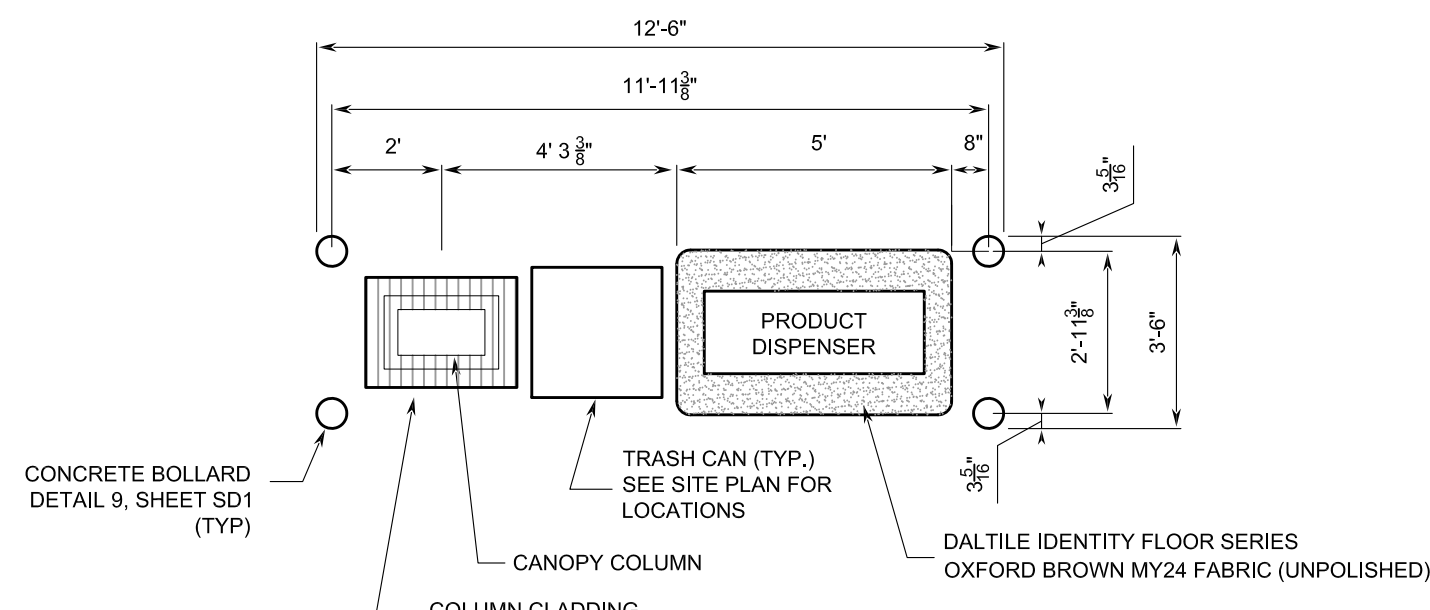
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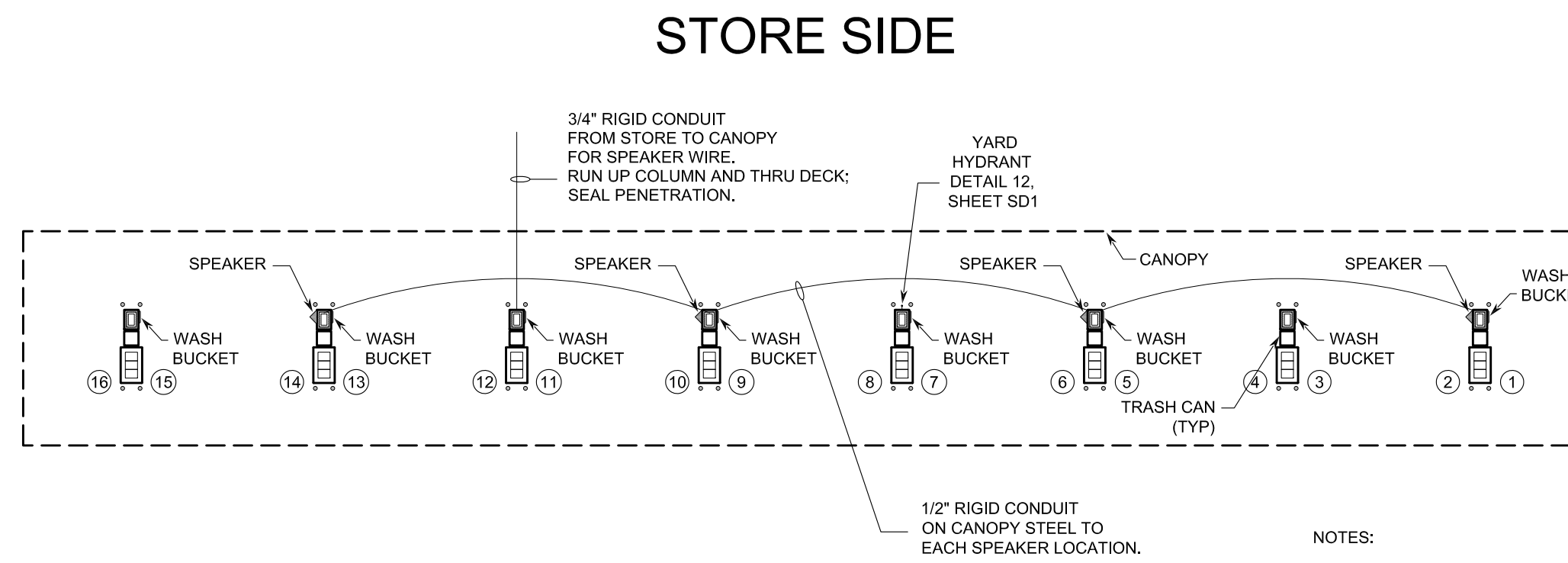
90TH AVE PLAN AND PROFILE
RACETRAC #1422 - VERO BEACH
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/19
SCALE	1" = 20'
PROJECT NUMBER:	024-108
C-5.4	2
SHEET NO.	VERSION

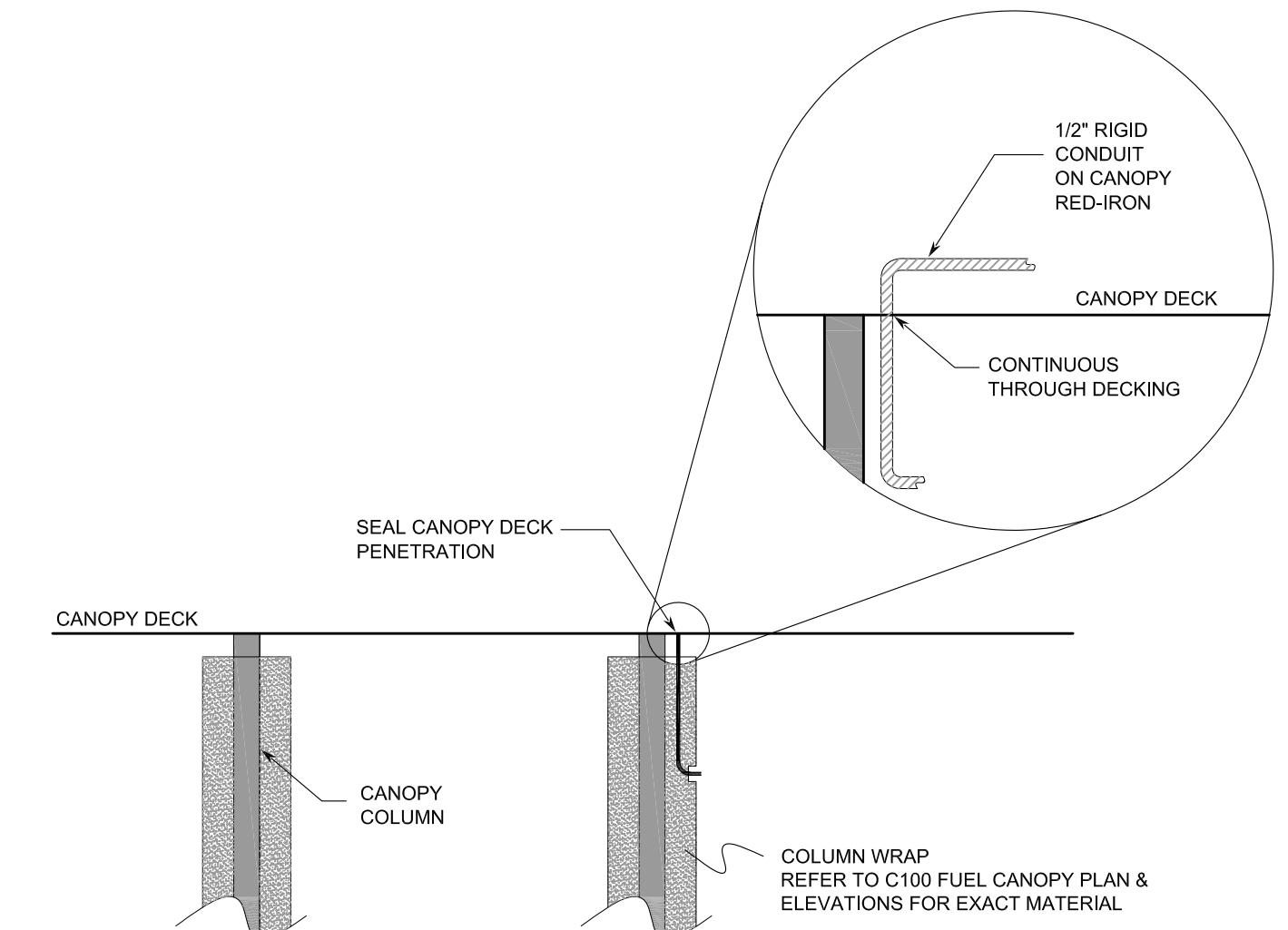




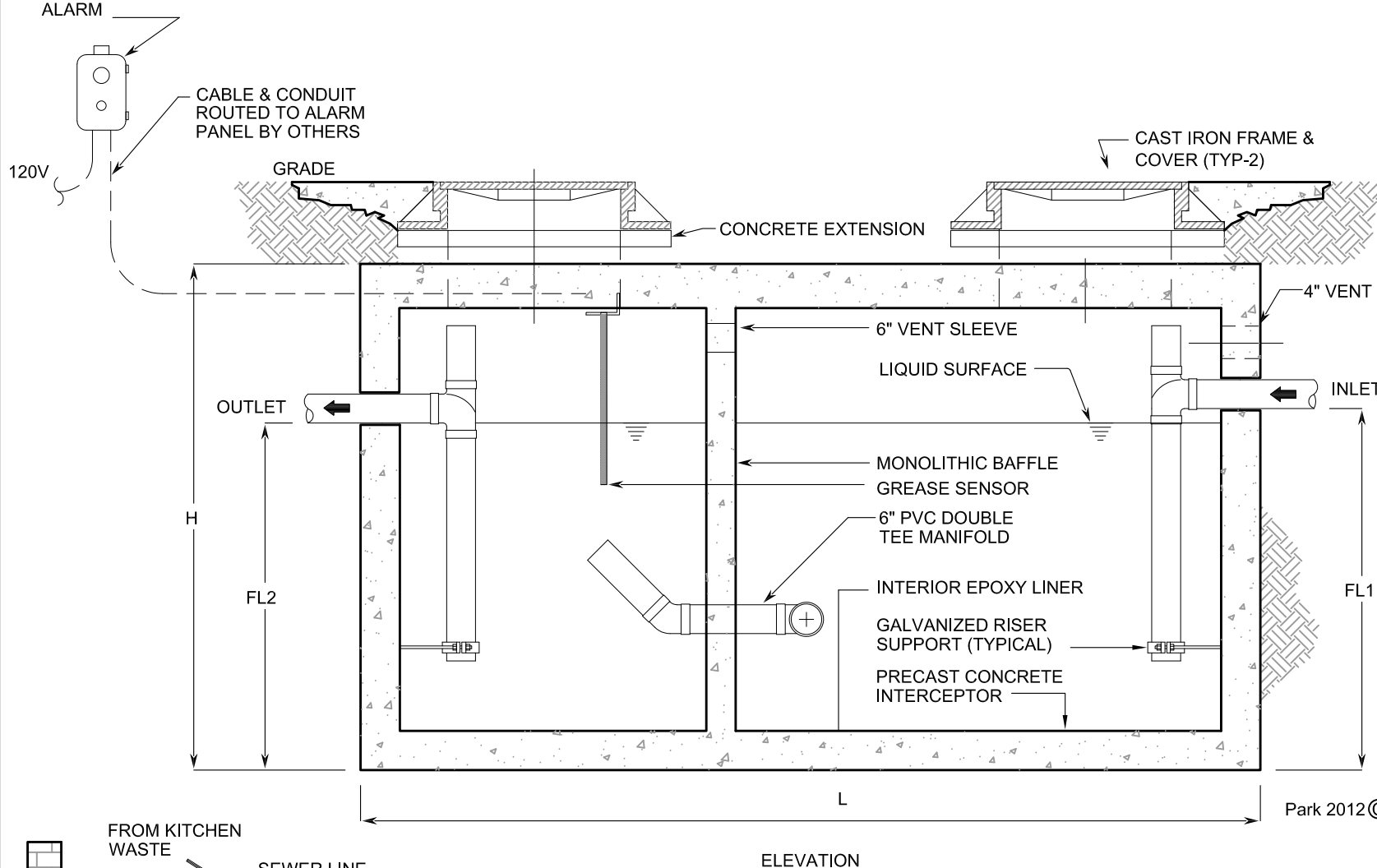
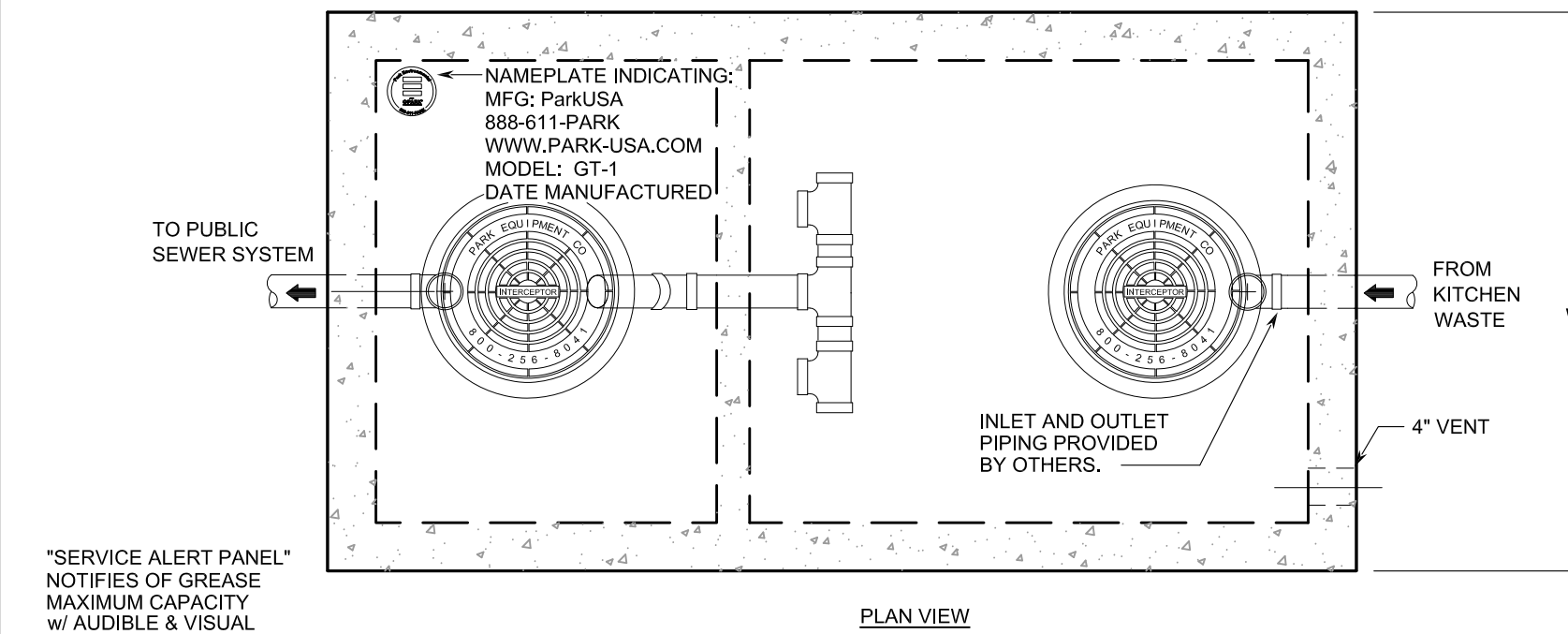
1 DISPENSER ISLAND DETAIL
SD2 NTS



2 CANOPY ACCESSORIES LAYOUT
SD2 NTS



3 CONDUIT PENETRATION DETAIL
SD2 NTS



TYPICAL APPLICATIONS INCLUDE COMMERCIAL AND INDUSTRIAL FOOD SERVICE KITCHENS WHERE EXCESSIVE GREASE MAY INTERFERE WITH THE PROPER DRAINAGE OF THE SEWER SYSTEM. THE GREASE INTERCEPTOR IS GENERALLY BURIED BELOW GRADE FOR GRAVITY FLOW SEWER SYSTEMS. A SAMPLE WELL IS UTILIZED ON THE OUTLET SIDE FOR SAMPLING BY THE LOCAL WATER AUTHORITY.

SPECIFICATIONS:
CONCRETE: CLASS II CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR. FIRST STAGE OF WALL AND Baffle WITH SECTIONAL RISER TO REQUIRED DEPTH. (MONOLITHIC Baffle REQUIRED. SLIDE-IN TYPE IS NOT ACCEPTABLE).
REINFORCEMENTS: GRADE 60 REINFORCEMENT WITH STEEL REBAR CONFORMING TO ASTM A615 ON REQUIRED CENTERS OR EQUAL.
C.L. CASTINGS: MANHOLE FRAMES, COVERS OR GRATES ARE MANUFACTURED OF GRAY CAST IRON CONFORMING TO ASTM A48-75 CLASS 30. MANHOLE SHALL BE NOMINAL 24 INCH DIAMETER AND BE TRAFFIC DUTY.

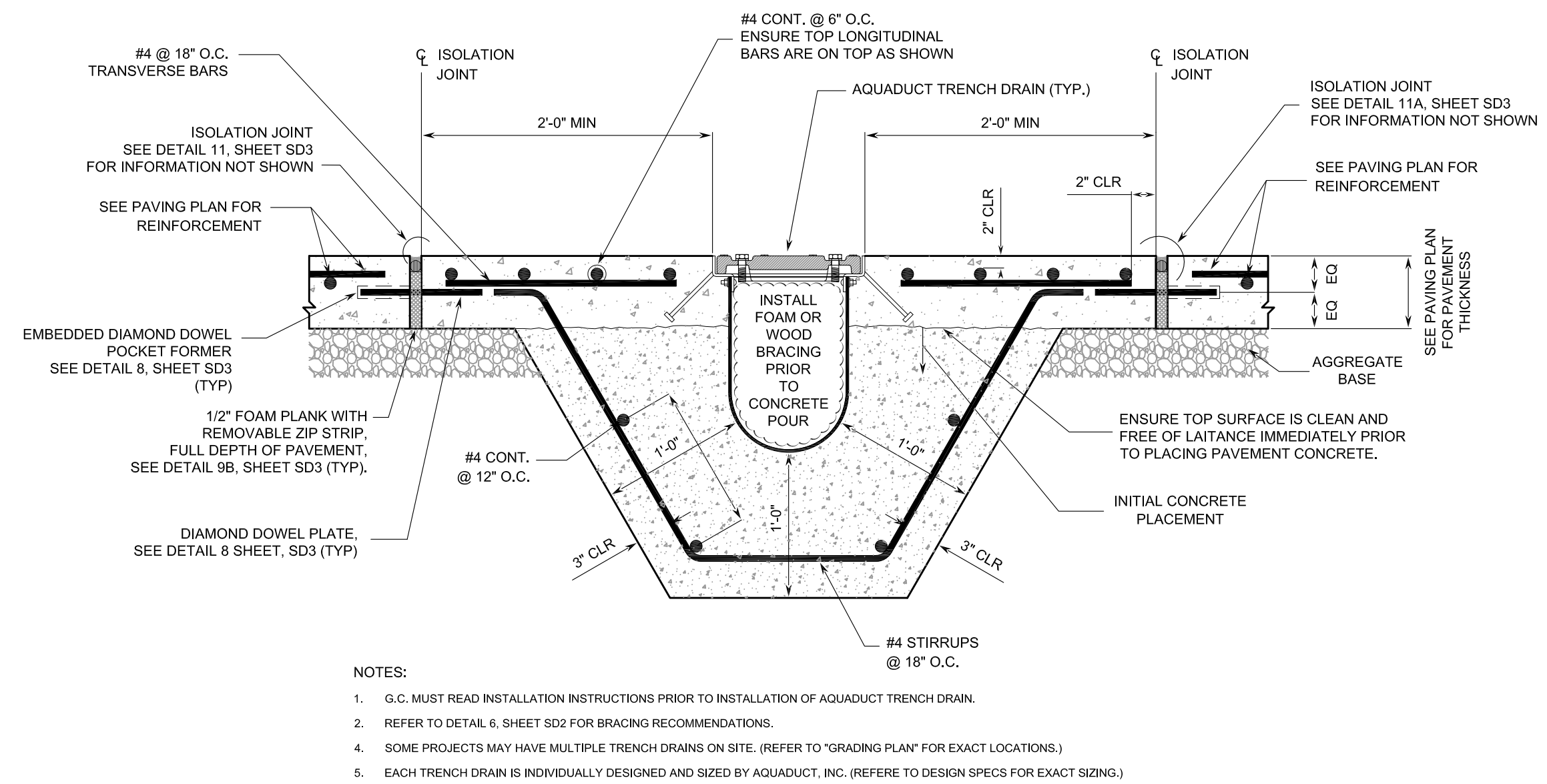
MODEL NO.	CAPACITY US GAL	GREASE CAP. (LBS)	EMPTY WT (LBS)	LENGTH L	WIDTH W	HEIGHT H	INLET FL1	OUTLET FL2
GT-750	750	1,700	9,900	7'-10"	4'-4"	6'-0"	4'-5"	4'-2"

OTHER SIZES ARE AVAILABLE. CONTACT US FOR MORE INFORMATION
ENGINEERING DATA:
THE GREASE INTERCEPTOR IS STRUCTURALLY & HYDRAULICALLY ENGINEERED TO CONFORM TO REGIONAL PLUMBING CODES RECOMMENDED IN MOST CITIES. CONSULT WITH LOCAL AUTHORITIES FOR SPECIFIC APPLICATION REQUIREMENTS.
SHOP DRAWINGS SHALL INCLUDE COMPLETE STRUCTURAL AND BUOYANCY CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER.
CONSULT WITH PARK EQUIPMENT COMPANY FOR EXACT EXCAVATION DIMENSIONS & SHIPPING INFORMATION.

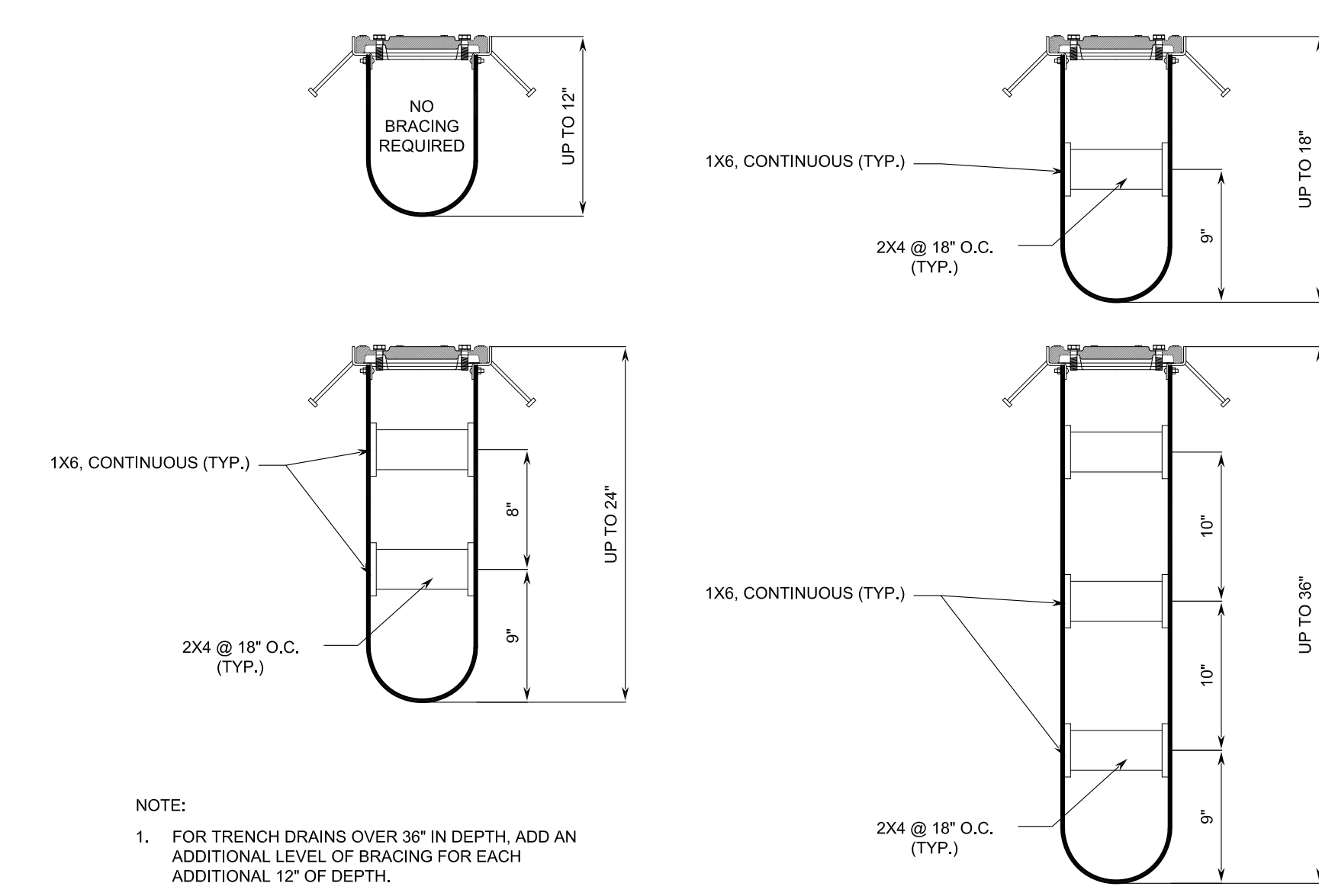


SCALE	NONE	DWG. NO.	GT-1	REV.	A
DATE	2012				

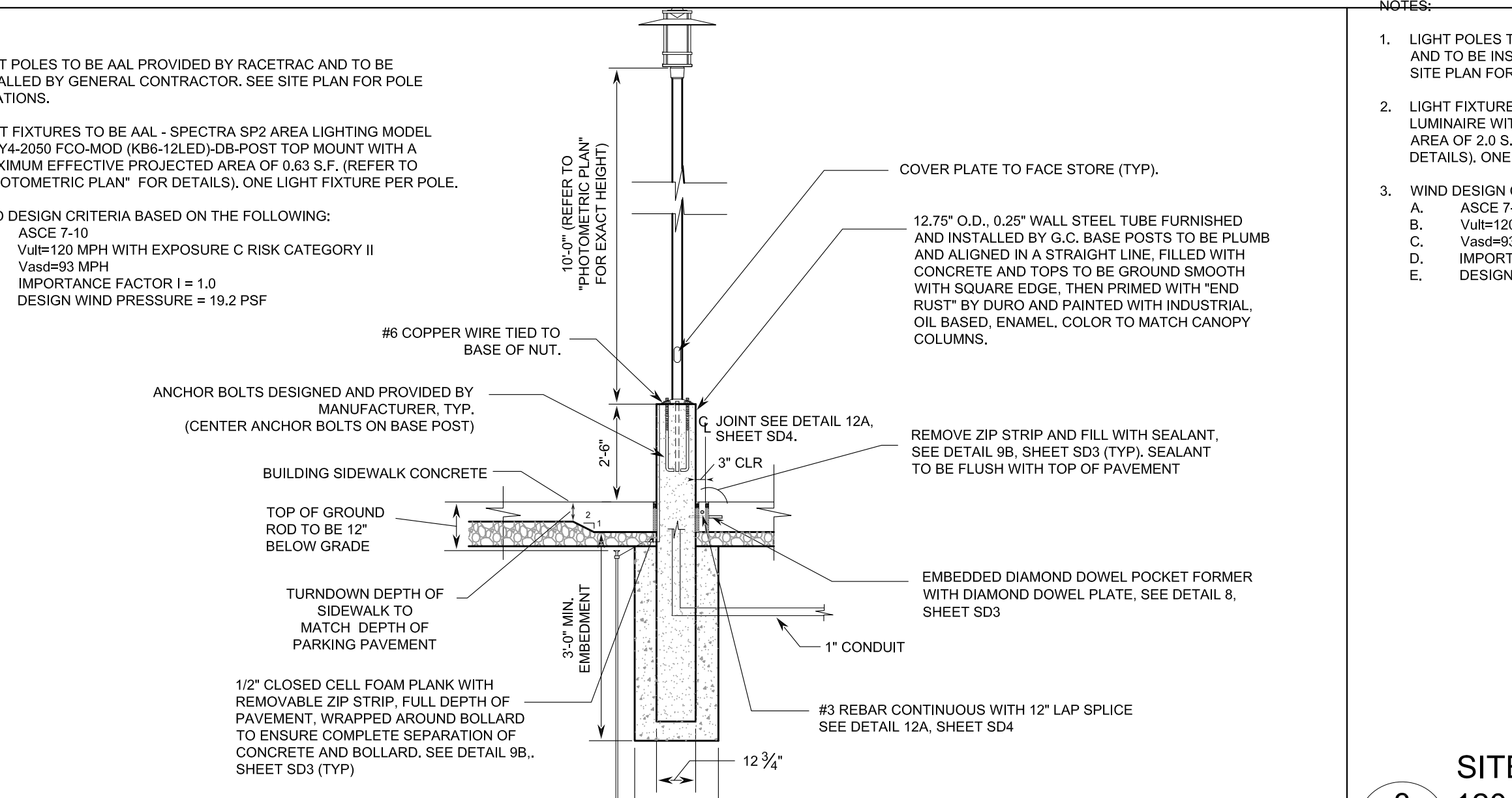
4 GREASE TRAP (750 GALLON CAPACITY) & SAMPLE WELL DETAILS OR "APPROVED EQUAL"
SD2 NTS



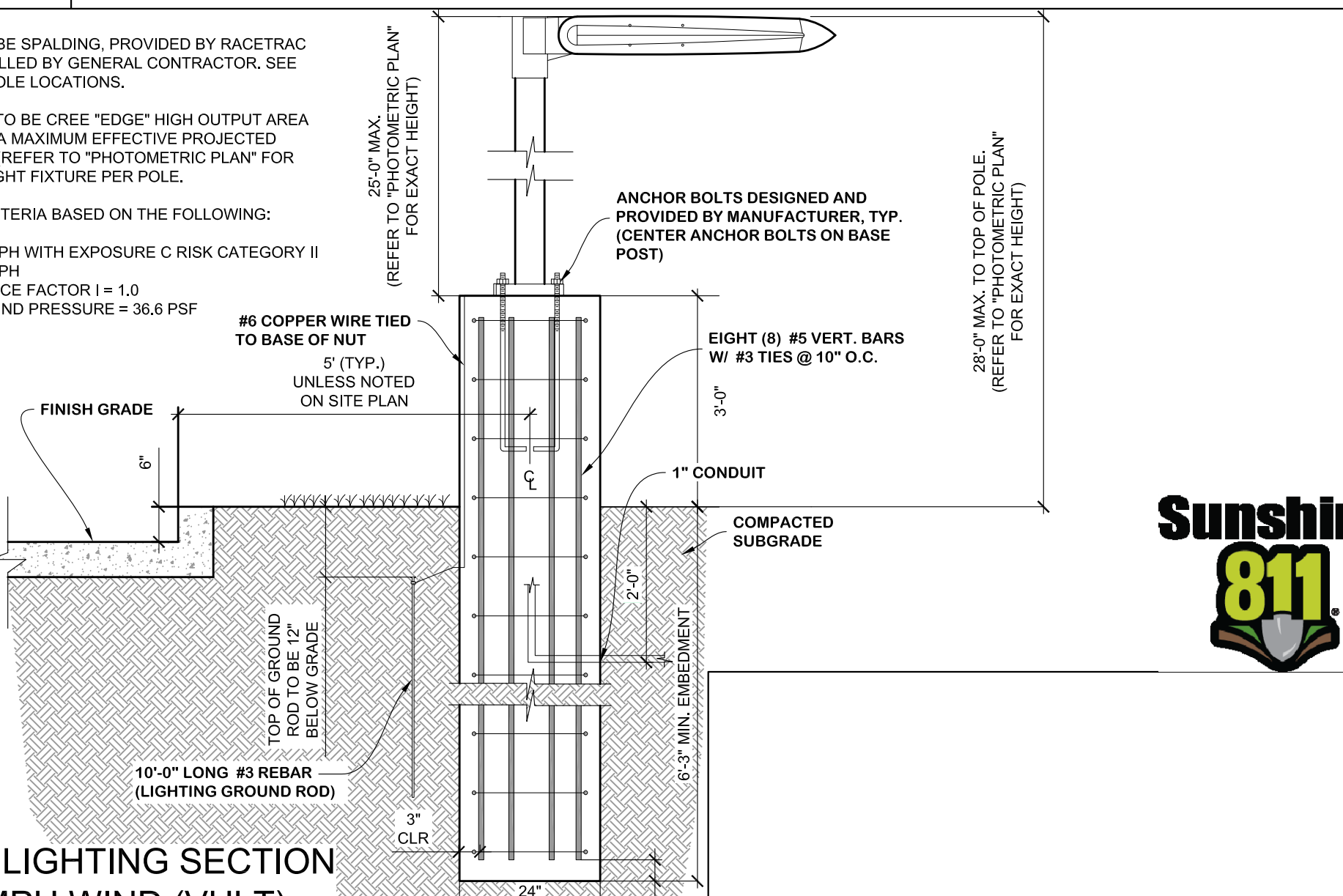
5 TYP. CONCRETE DETAIL FOR AQUADUCT TRENCH DRAIN
SD2 NTS



6 AQUADUCT TRENCH DRAIN BRACING LAYOUT DETAILS
SD2 NTS



7 DECORATIVE LIGHTING SECTION 120 MPH WIND (VULT)
SD2



8 SITE LIGHTING SECTION 120 MPH WIND (VULT)
SD2

NOTES:
1. LIGHT POLES SHALL MEET 93 MPH WIND (Vasd); 120 MPH (Vult).
2. CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH (F_c) OF 3,500 PSI FOR ALL LIGHT POLE FOOTINGS.
3. ALL REINFORCING STEEL SHALL BE NEW DOMESTIC DEFORMED BILLET STEEL CONFORMING TO ASTM A-615 GRADE 60.

NOTES:
1. LIGHT POLES TO BE SPALDING, PROVIDED BY RACETRAC AND TO BE INSTALLED BY GENERAL CONTRACTOR. SEE SITE PLAN FOR POLE LOCATIONS.
2. LIGHT FIXTURES TO BE CREE "EDGE" HIGH OUTPUT AREA LUMINAIRE WITH A MAXIMUM EFFECTIVE PROJECTED AREA OF 2.0 S.F. (REFER TO "PHOTOMETRIC PLAN" FOR DETAILS). ONE LIGHT FIXTURE PER POLE.
3. WIND DESIGN CRITERIA BASED ON THE FOLLOWING:
A. ASCE 7-10
B. Vult=120 MPH WITH EXPOSURE C RISK CATEGORY II
C. Vasd=83 MPH
D. IMPORTANCE FACTOR I = 1.0
E. DESIGN WIND PRESSURE = 36.6 PSF

NO.	REVISIONS	DATE	BY
1	ISSUED FOR PERMITTING	11/15/19	BRP
2	REVISED PER COMMENTS	12/10/20	CMF

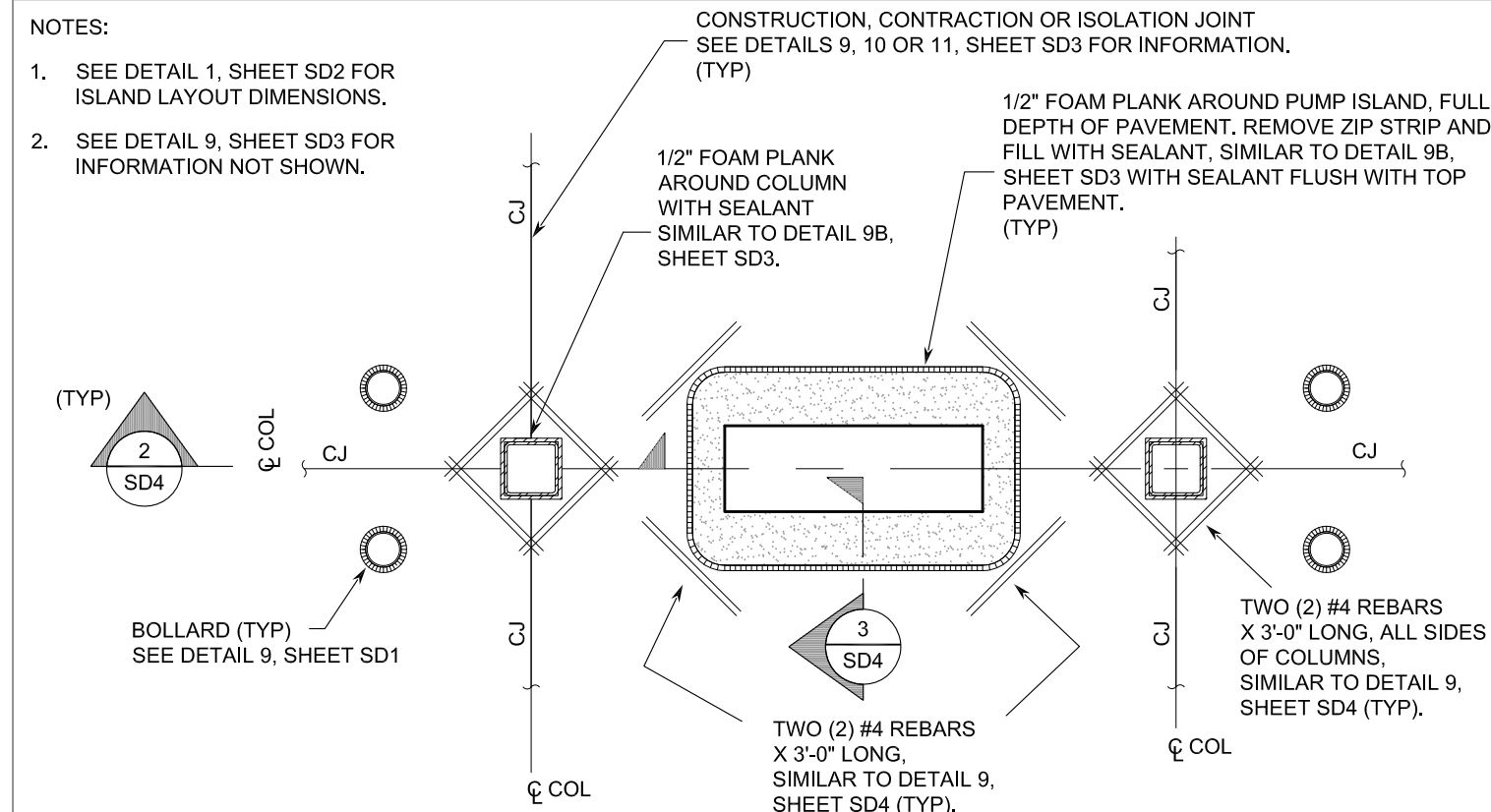
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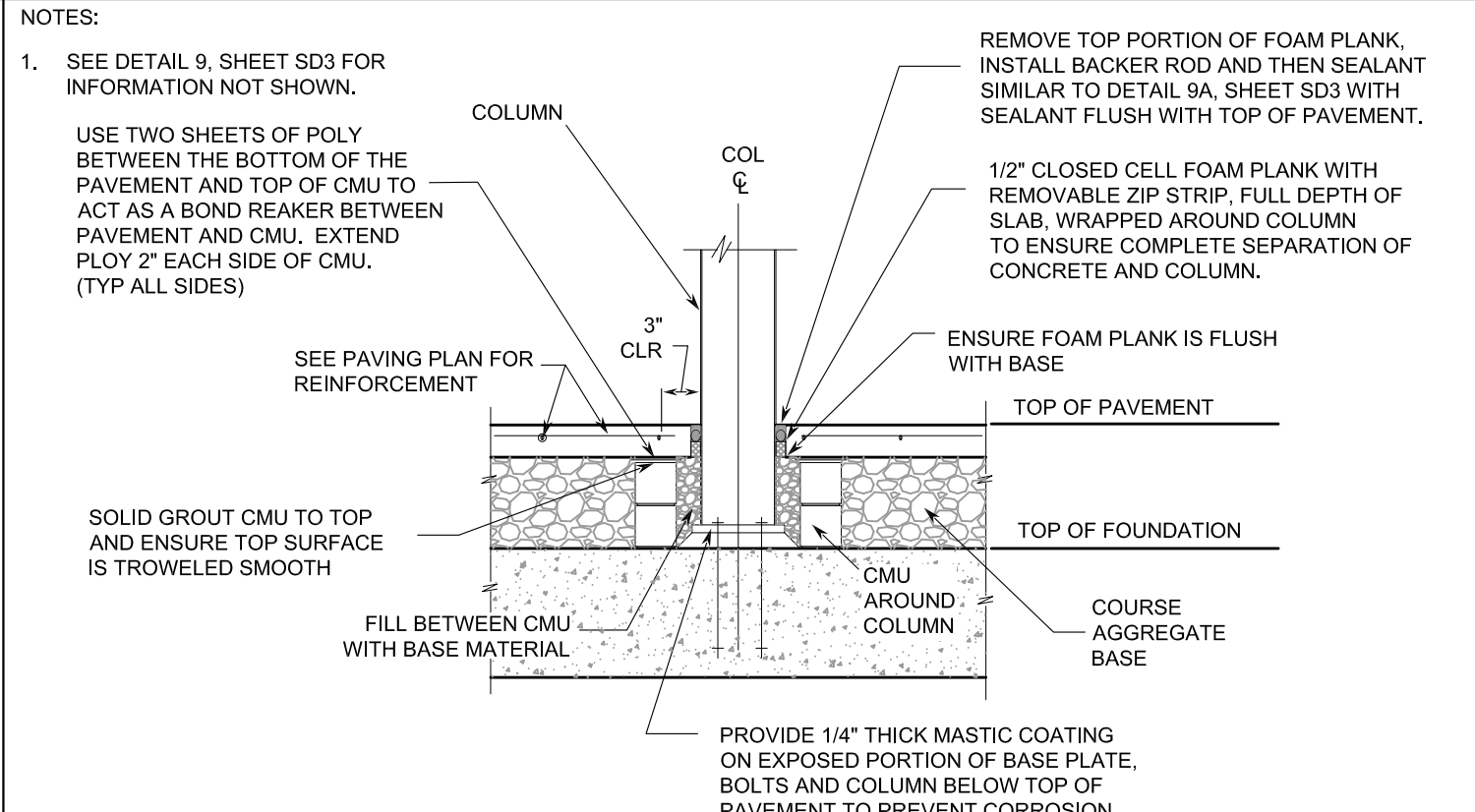


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RACETRAC #1422 - VERO BEACH
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INDIAN RIVER COUNTY

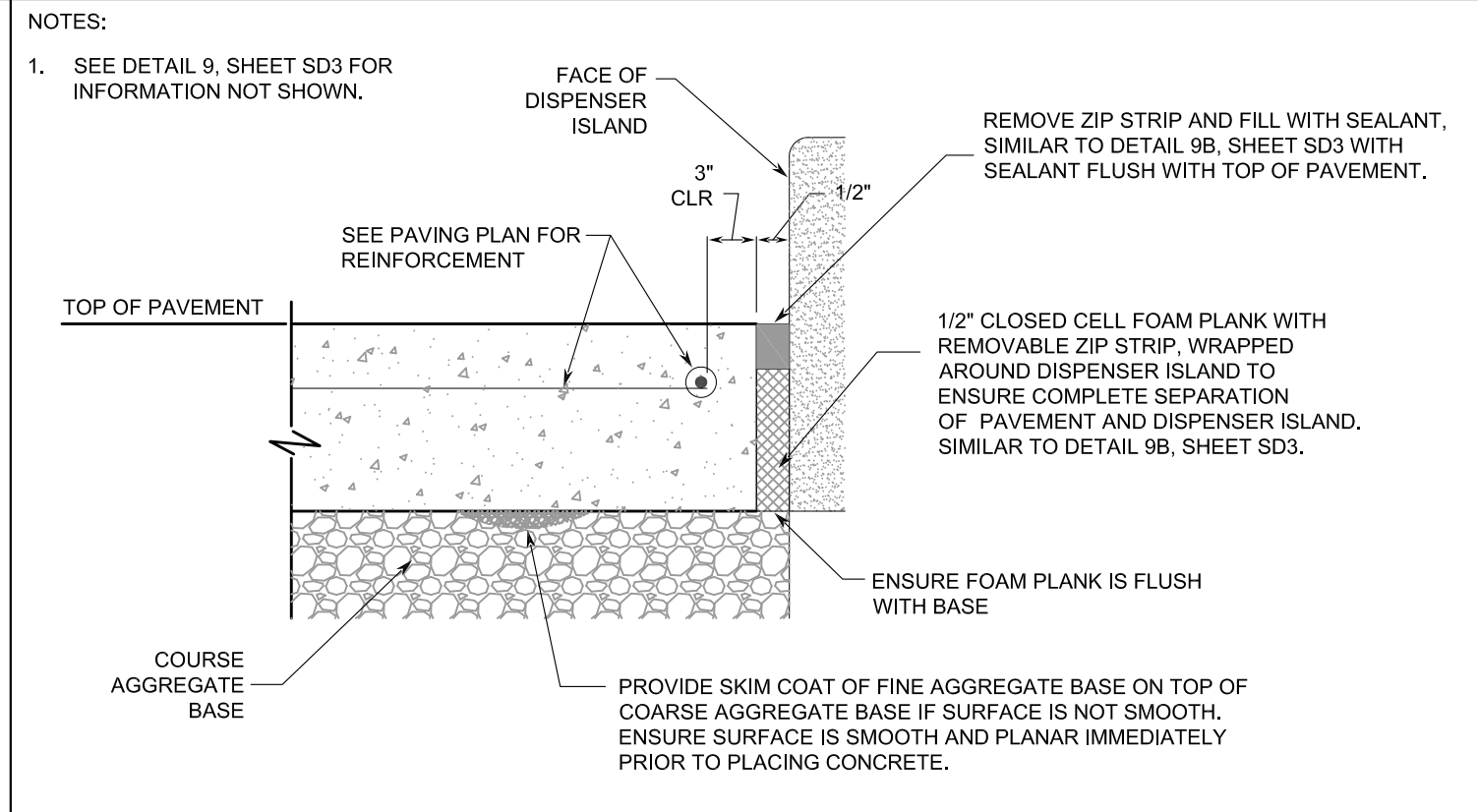
DRAWN-BY	CMF
DATE	07/01/2019
SCALE	NTS
PROJECT NUMBER:	024-108
SHEET NO.	SD2
VERSION	1



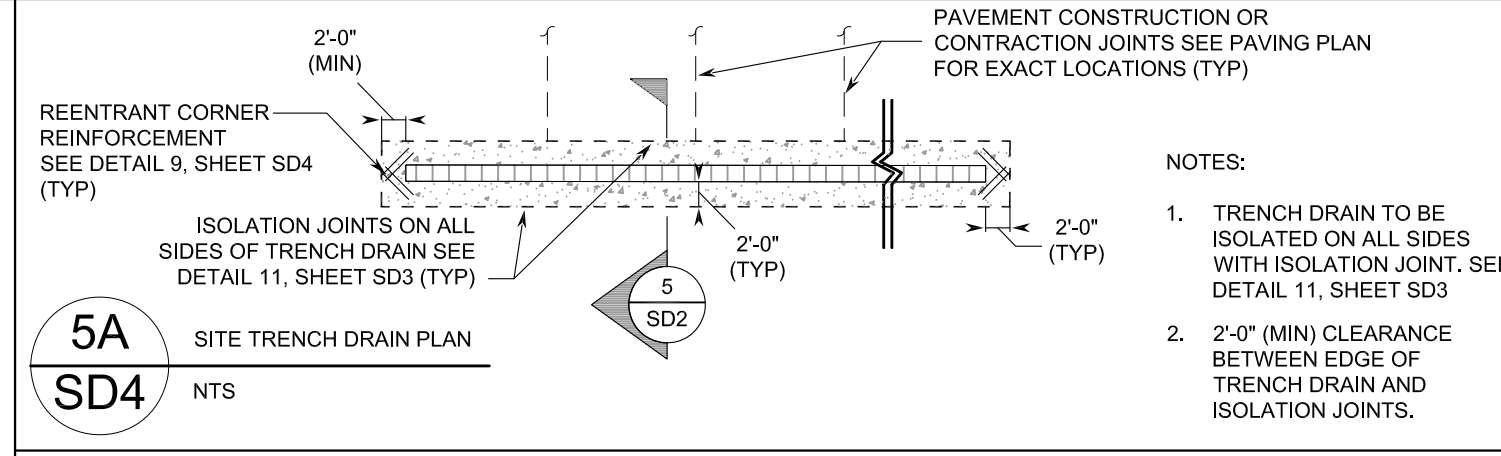
1 CONCRETE DETAIL @ DISPENSER ISLAND
SD4 NTS



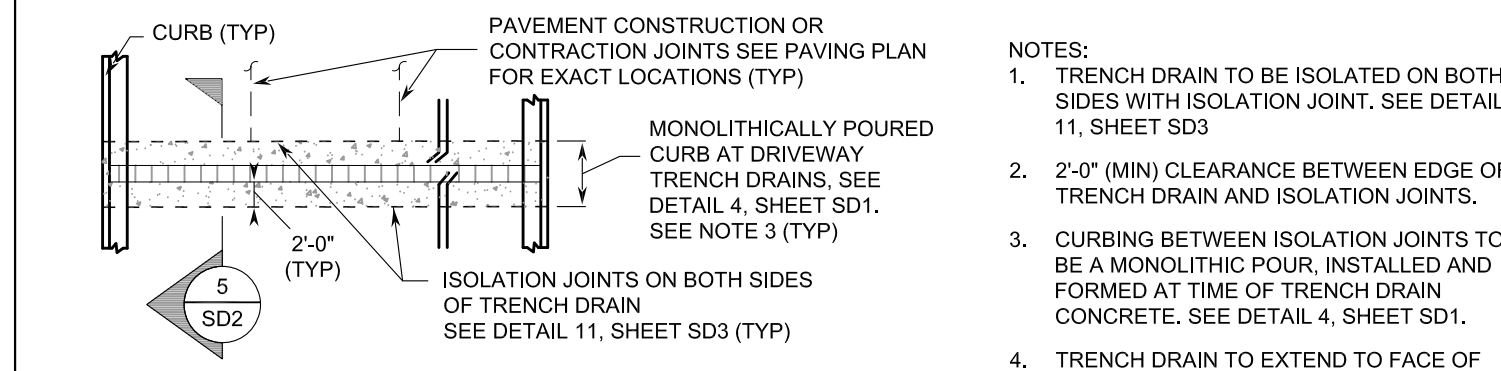
2 CANOPY COLUMN SECTION WITHOUT COLUMN CLADDING
SD4 NTS



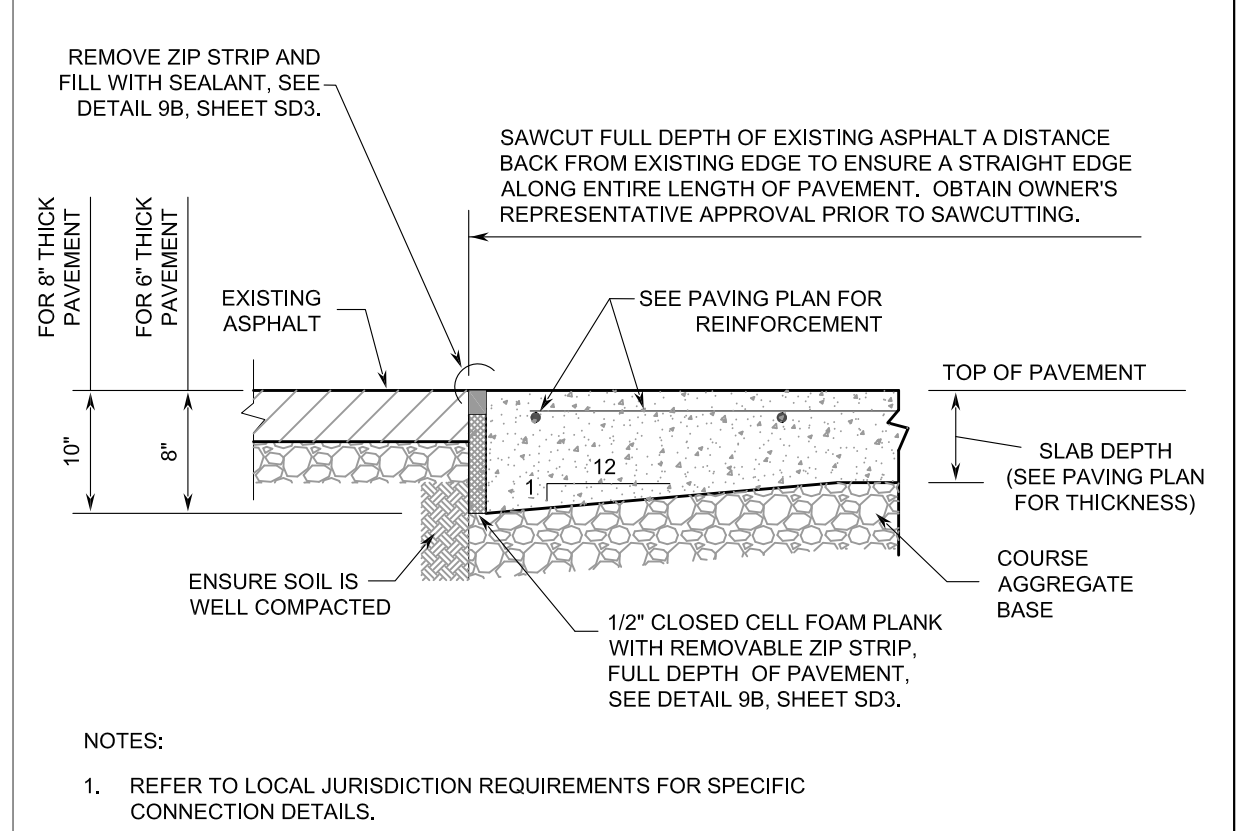
3 DISPENSER ISLAND SECTION
SD4 NTS



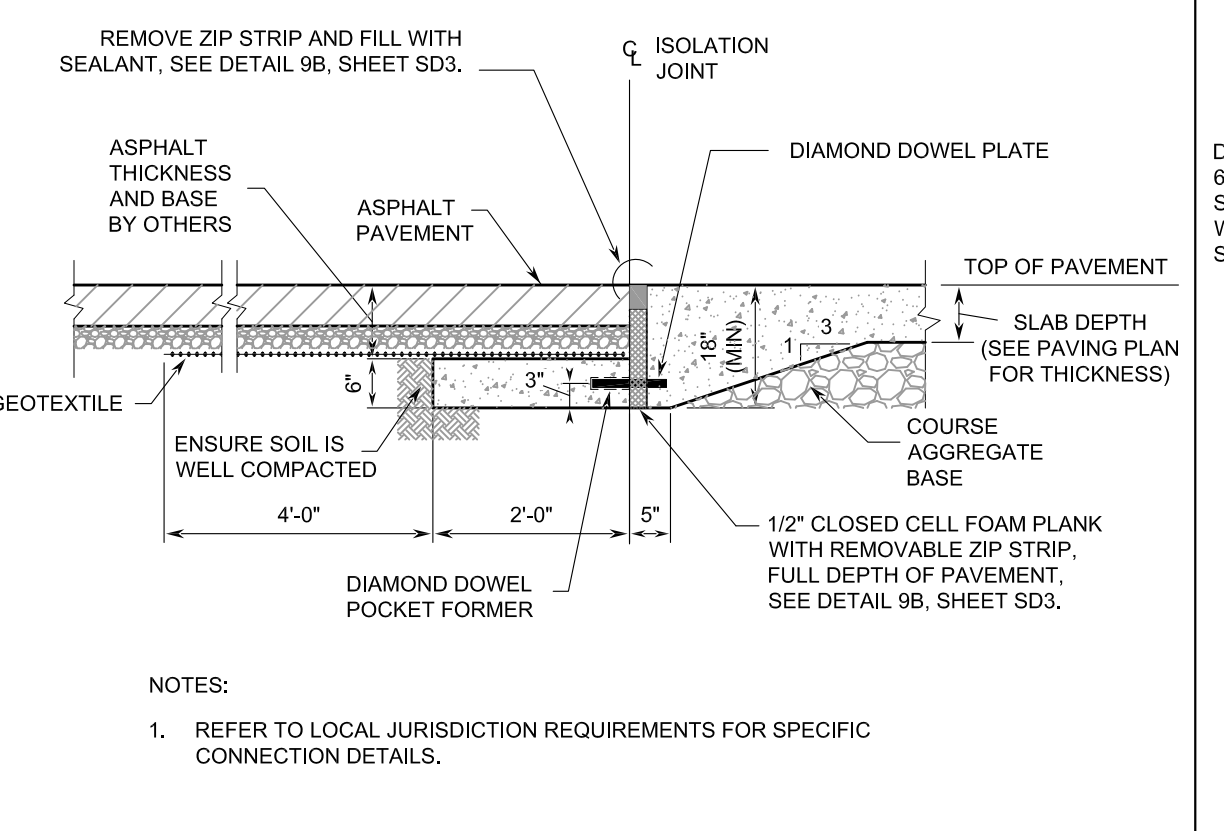
5A DRIVEWAY TRENCH DRAIN PLAN
SD4 NTS



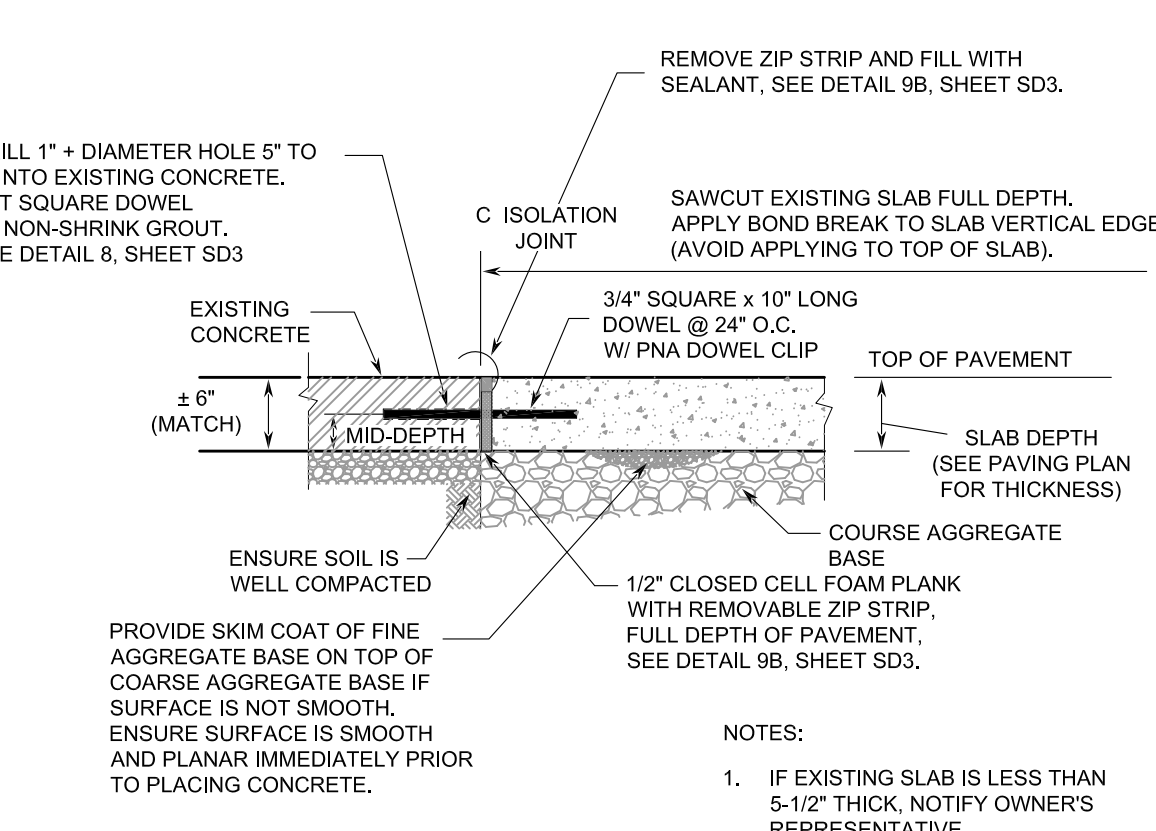
5B DRIVEWAY TRENCH DRAIN SECTION
SD4 NTS



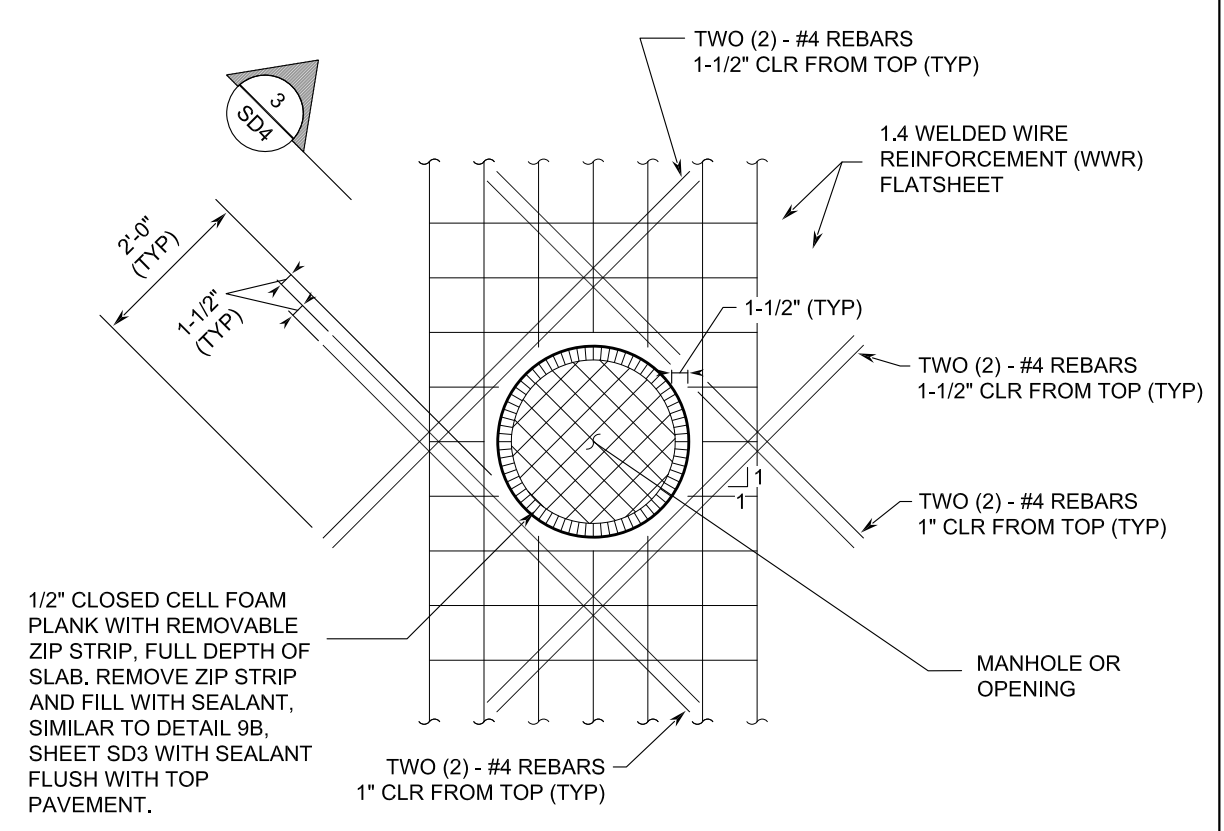
6 CONCRETE / EXISTING ASPHALT SECTION
SD4 NTS



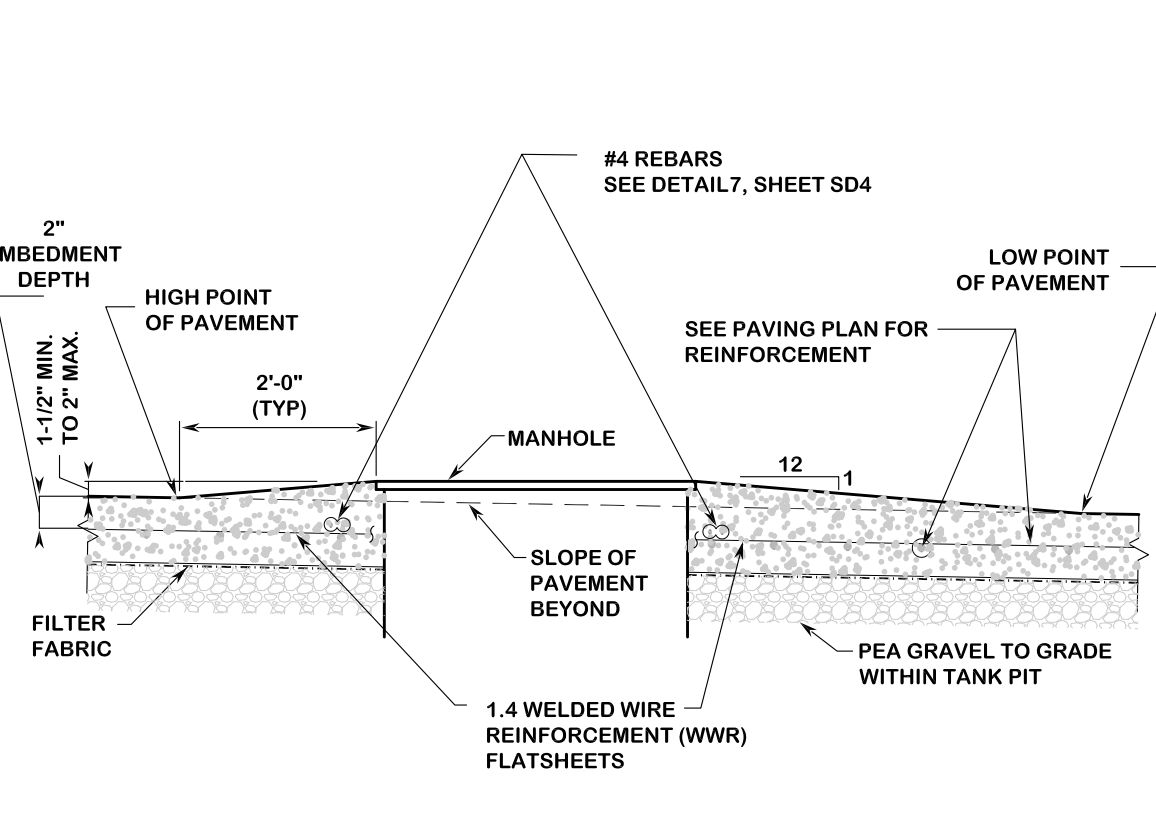
6A CONCRETE / NEW ASPHALT SECTION
SD4 NTS



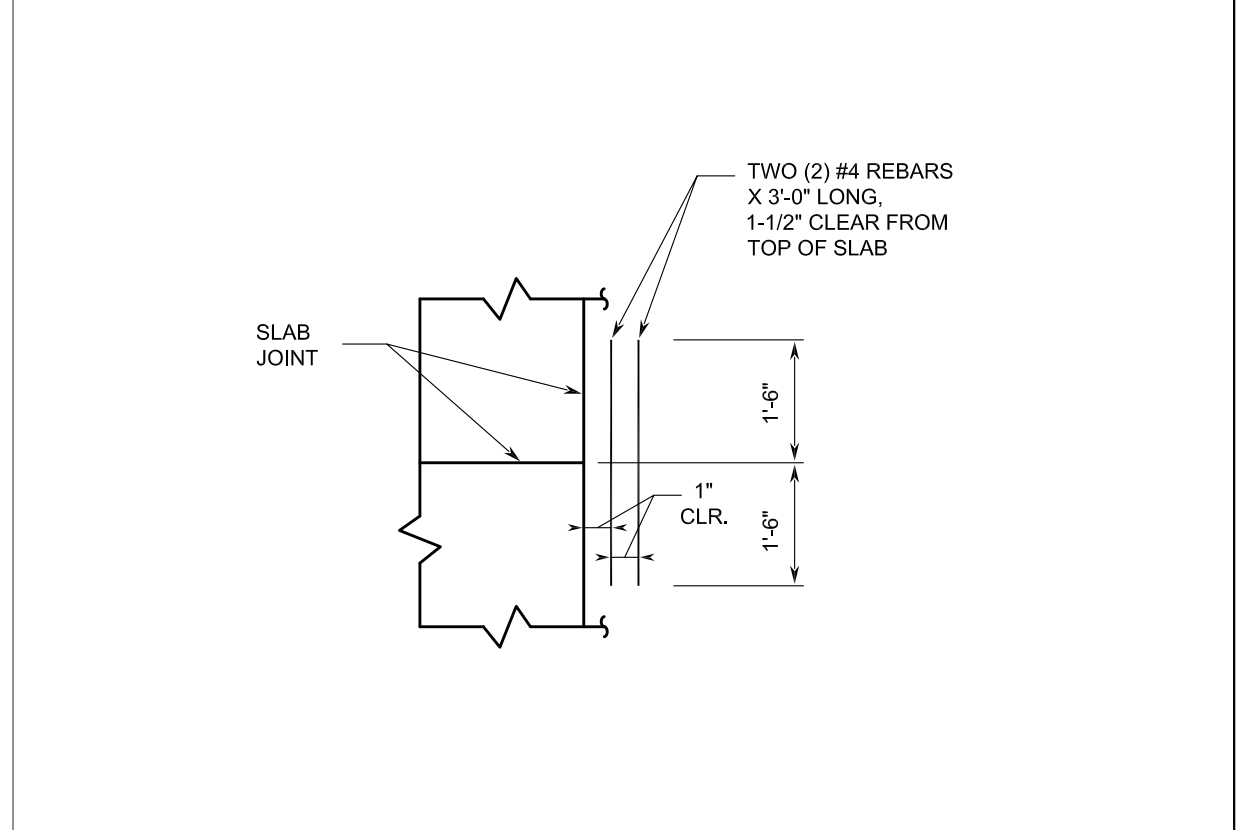
6B CONCRETE / EXISTING CONCRETE SECTION
SD4 NTS



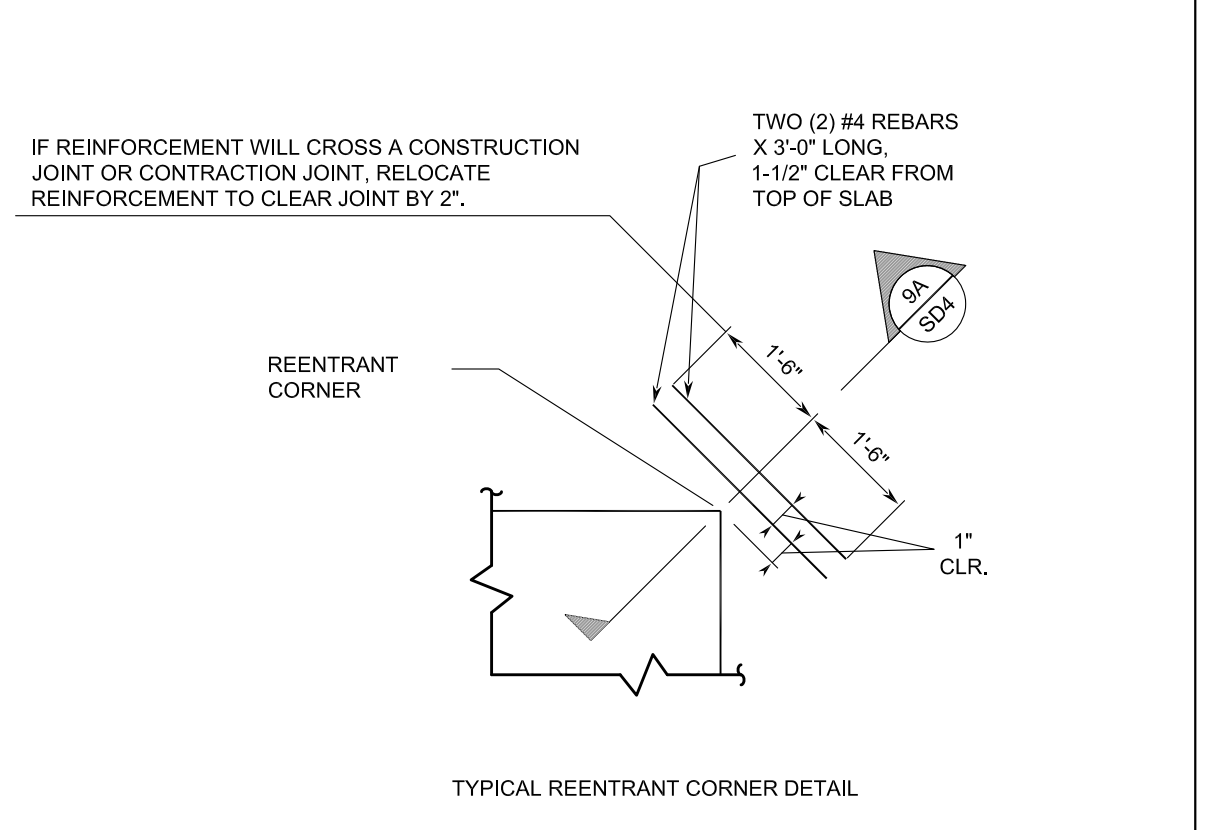
7 TANK MANHOLE PLAN
SD4 NTS



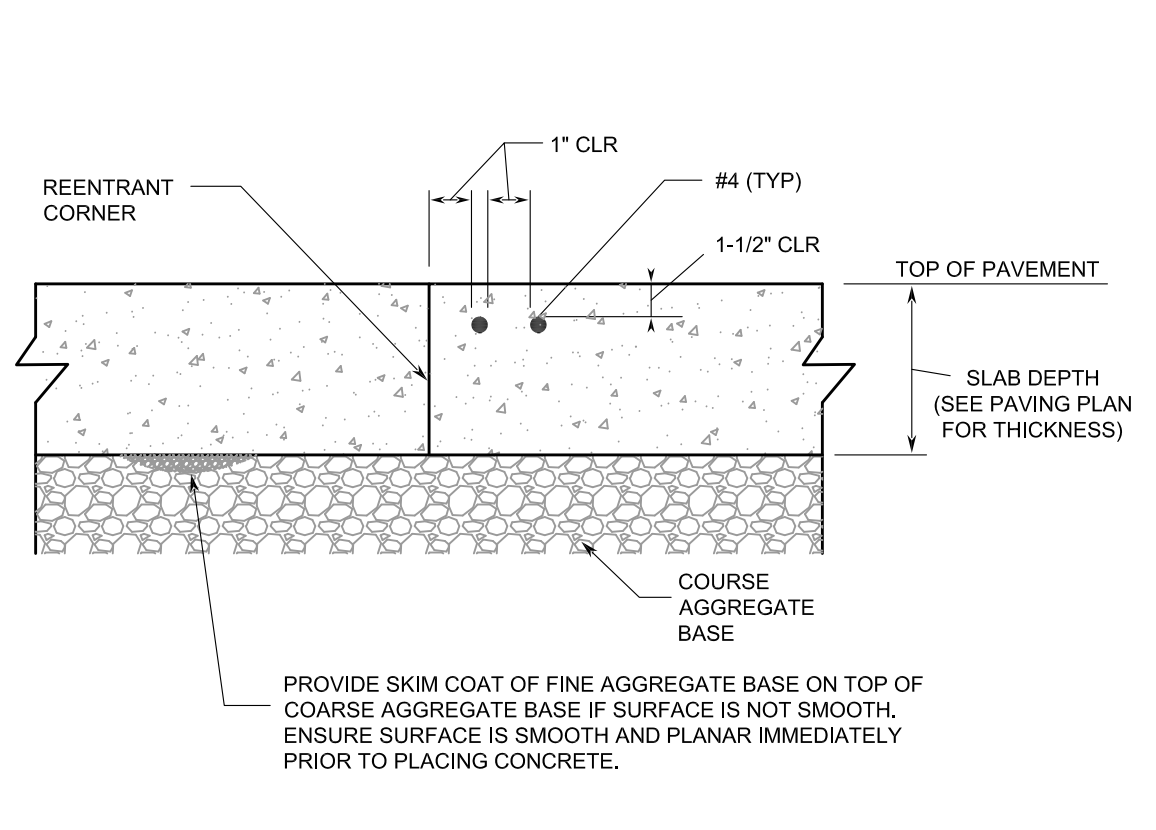
7A TANK MANHOLE SECTION
SD4 NTS



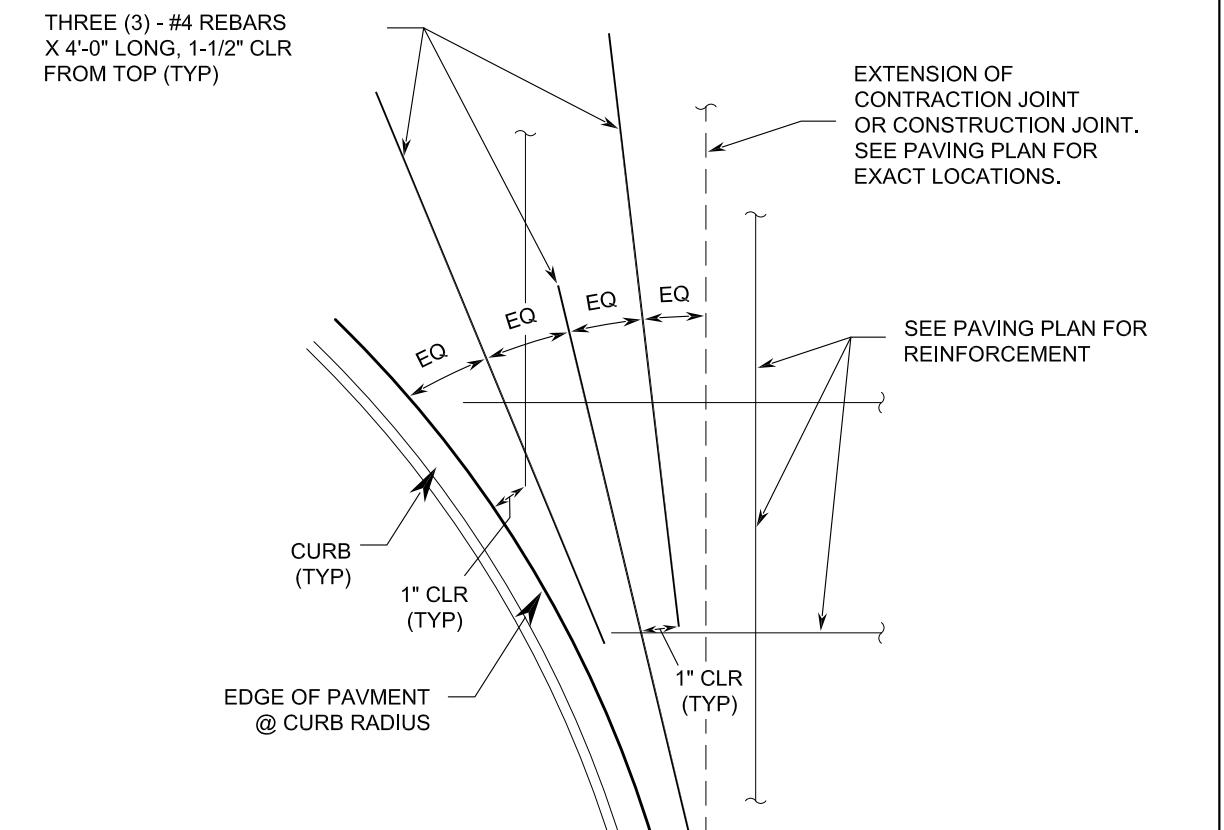
8 DISCONTINUOUS SLAB REINFORCEMENT JOINT DETAIL
SD4 NTS



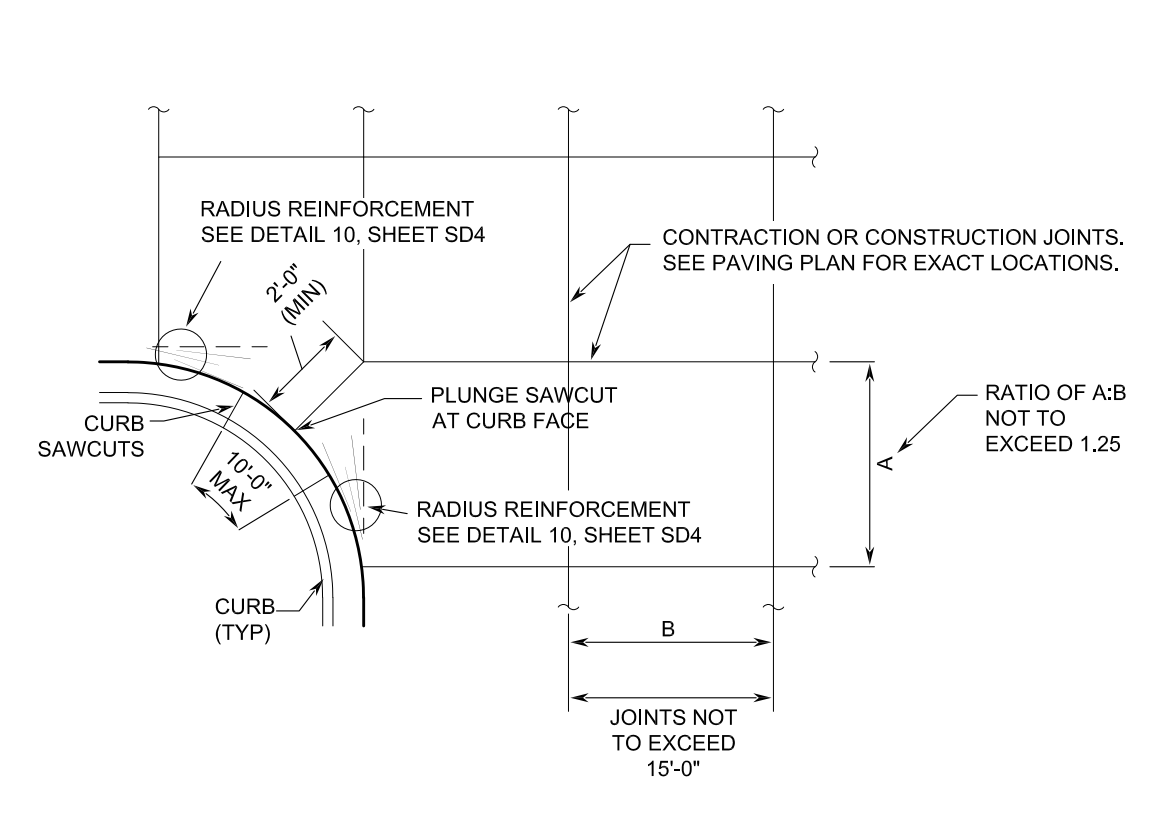
9 REENTRANT CORNER DETAIL
SD4 NTS



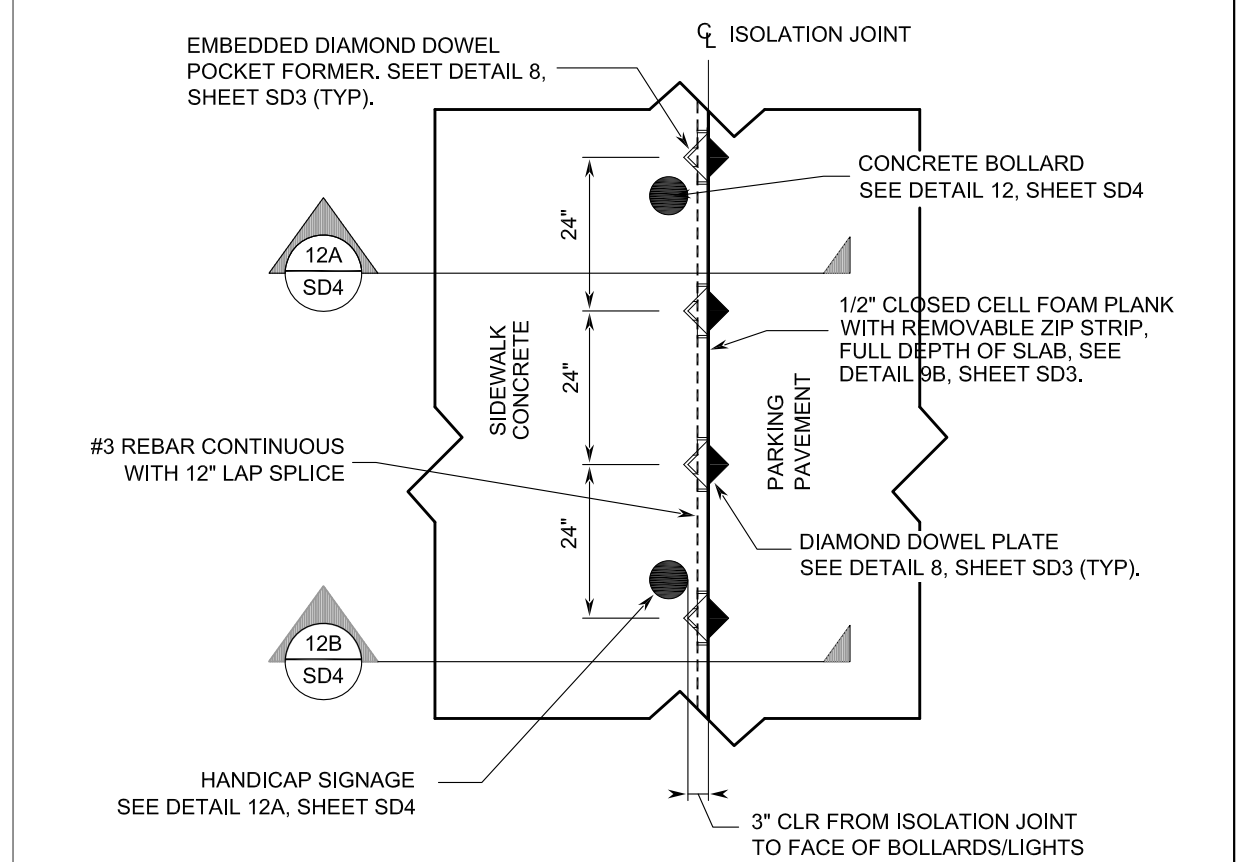
9A REENTRANT CORNER SECTION
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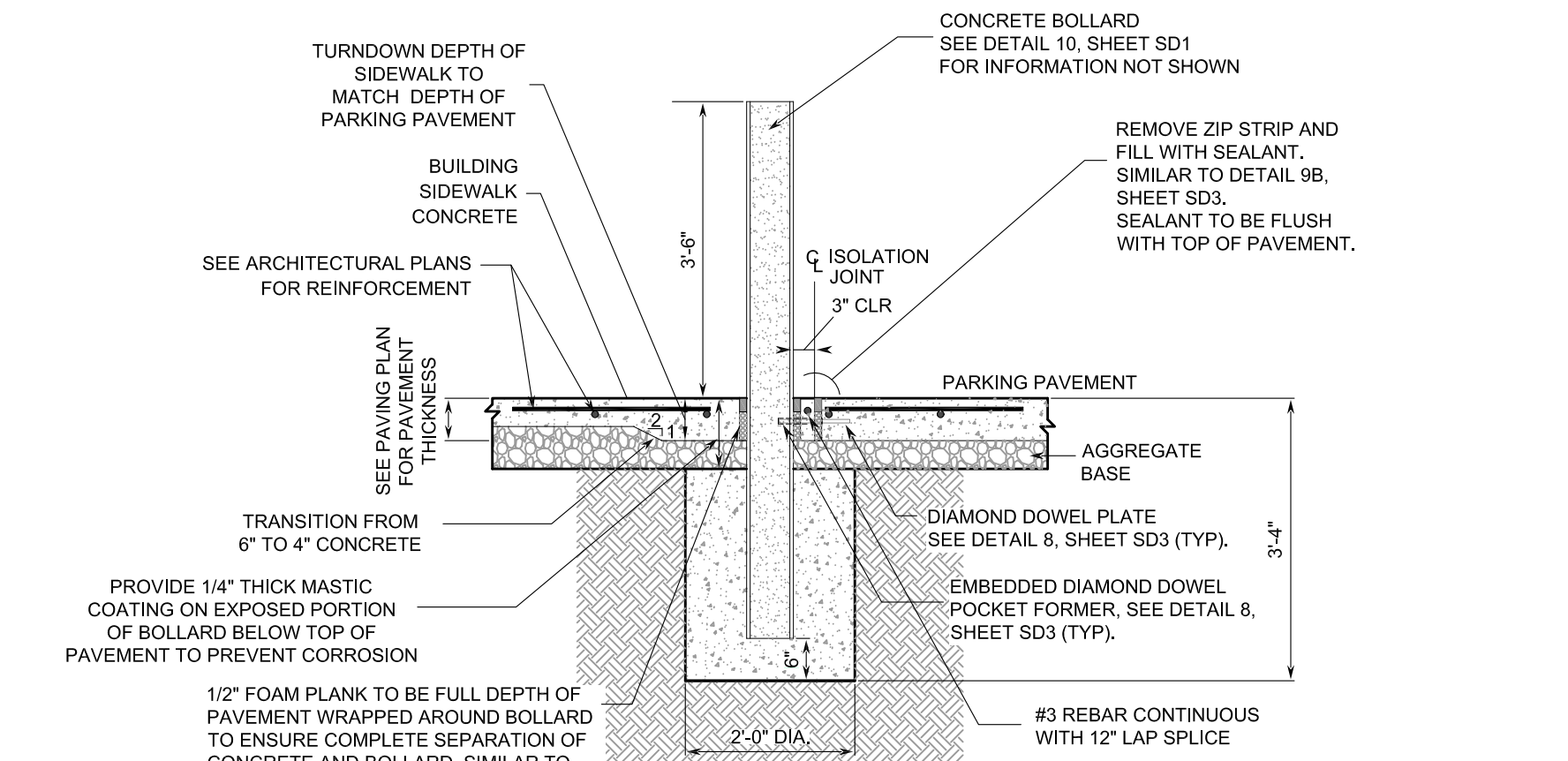
10 RADIUS REINFORCEMENT DETAIL
SD4 NTS



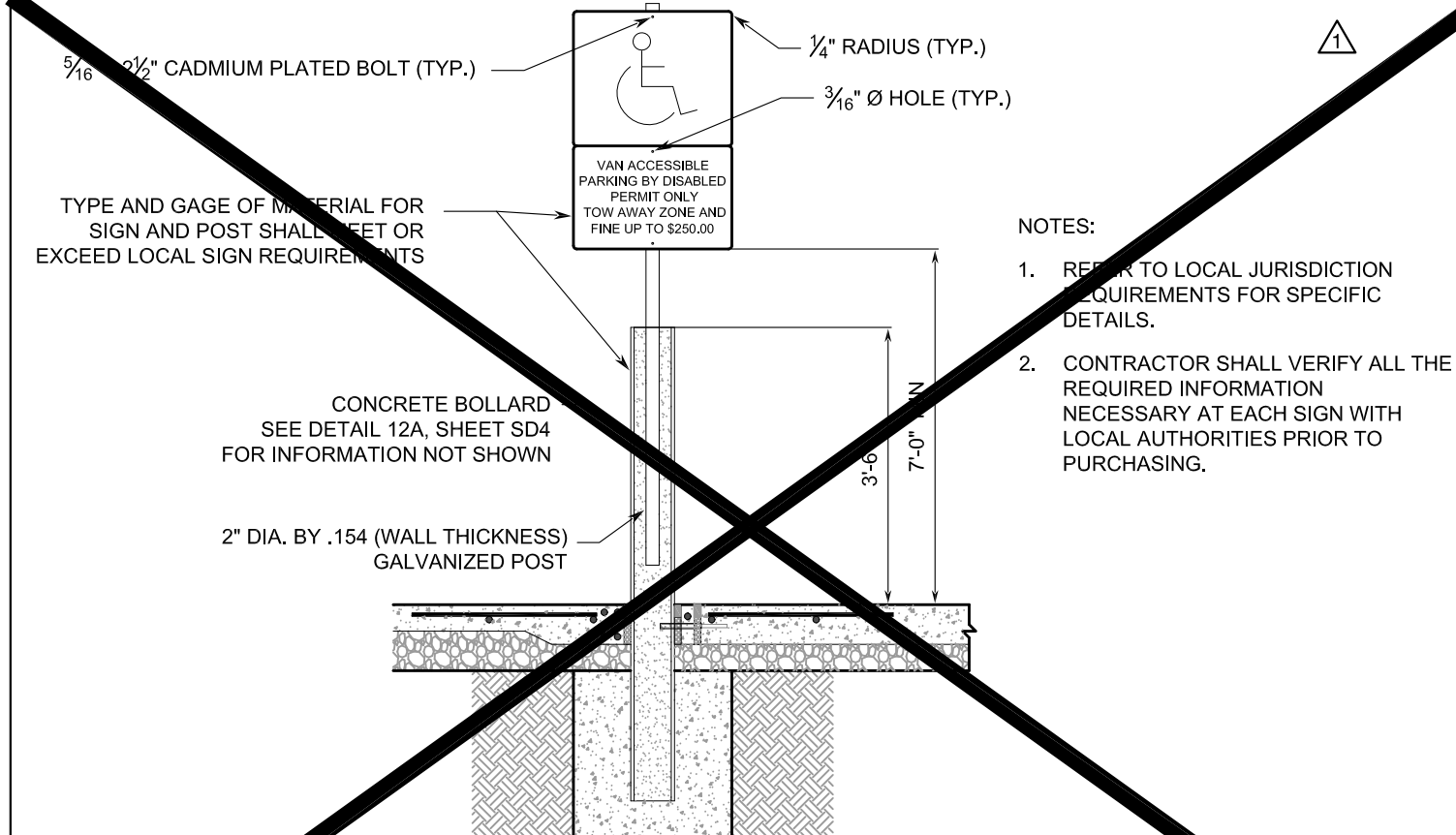
11 JOINT SPACING DETAIL PARTIAL PLAN (TYP)
SD4 NTS



12 ISOLATION JOINT @ SIDEWALK PARTIAL PLAN
SD4 NTS



12A BOLLARD @ SIDEWALK SECTION
SD4 NTS

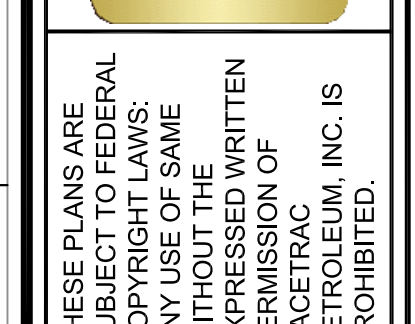


12B HANDICAP SIGNAGE DETAIL
SD4 NTS

NO.	REVISIONS	DATE

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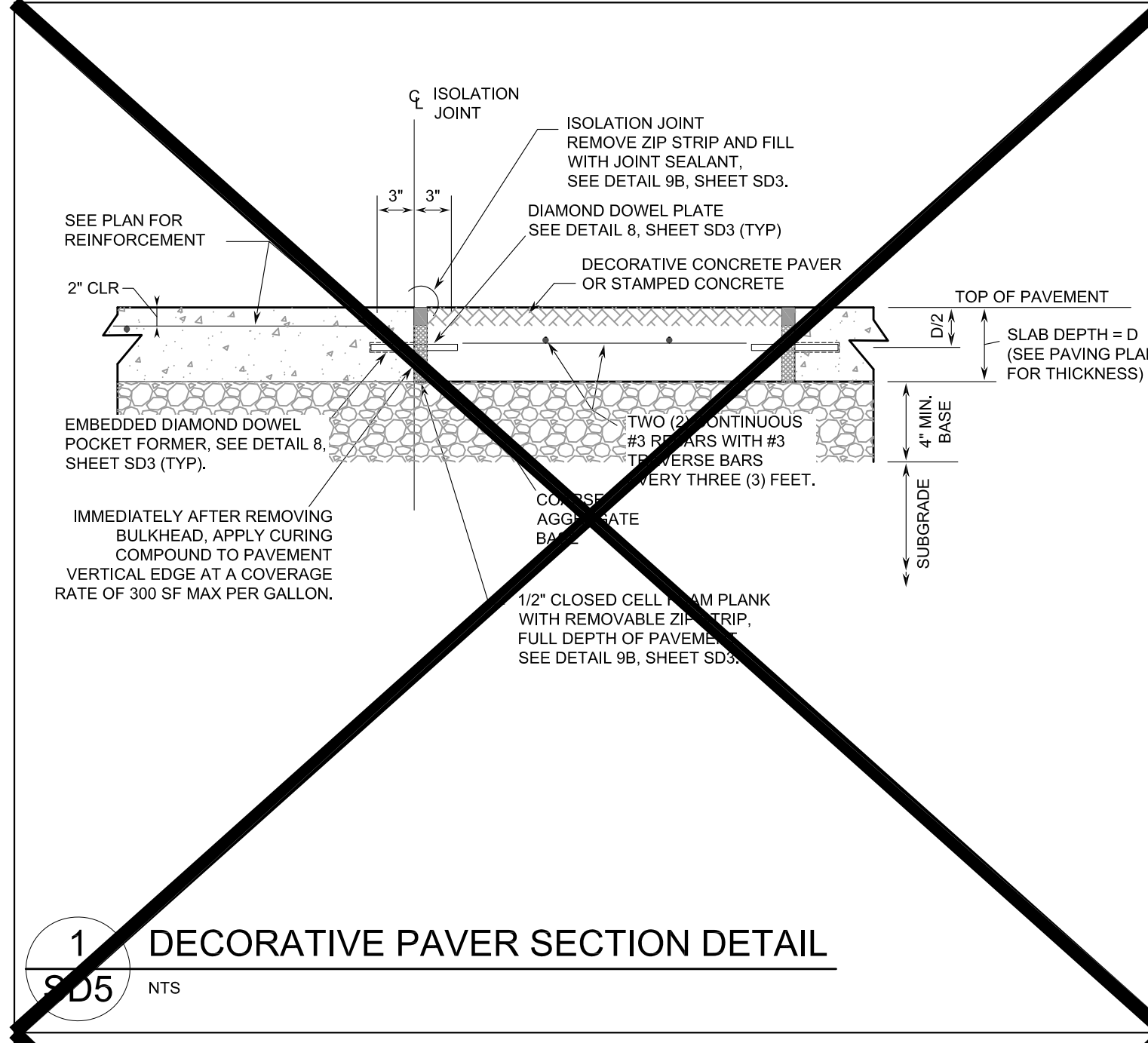


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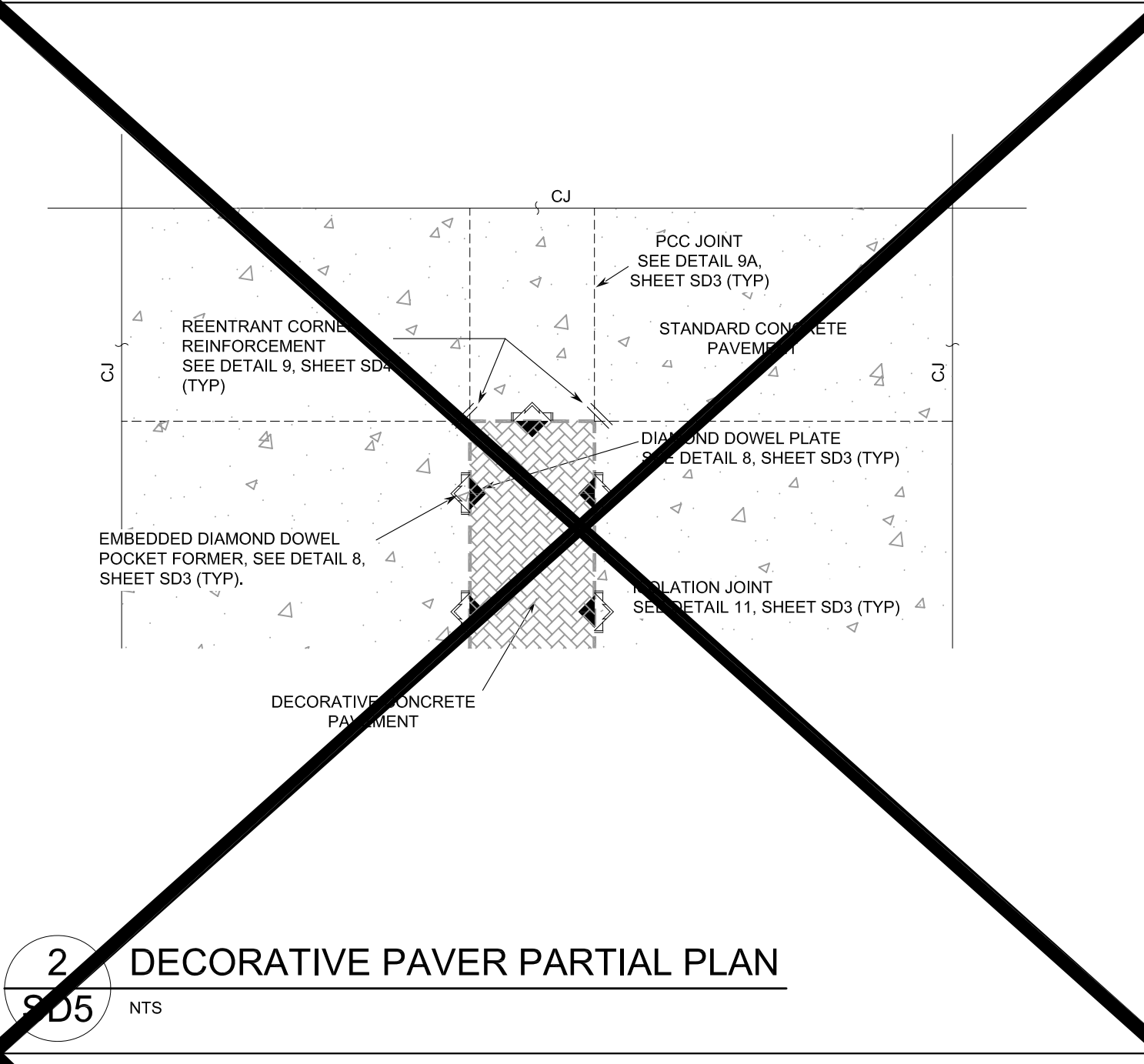
RACETRAC PETROLEUM, INC.
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RACETRAC STANDARD DETAILS	
RACETRAC #1422 - VERO BEACH	
DRAWN-BY	CMF
DATE	07/01/2019
SCALE	NTS
PROJECT NUMBER:	024-108
SD4	1
SHEET NO.	VERSION

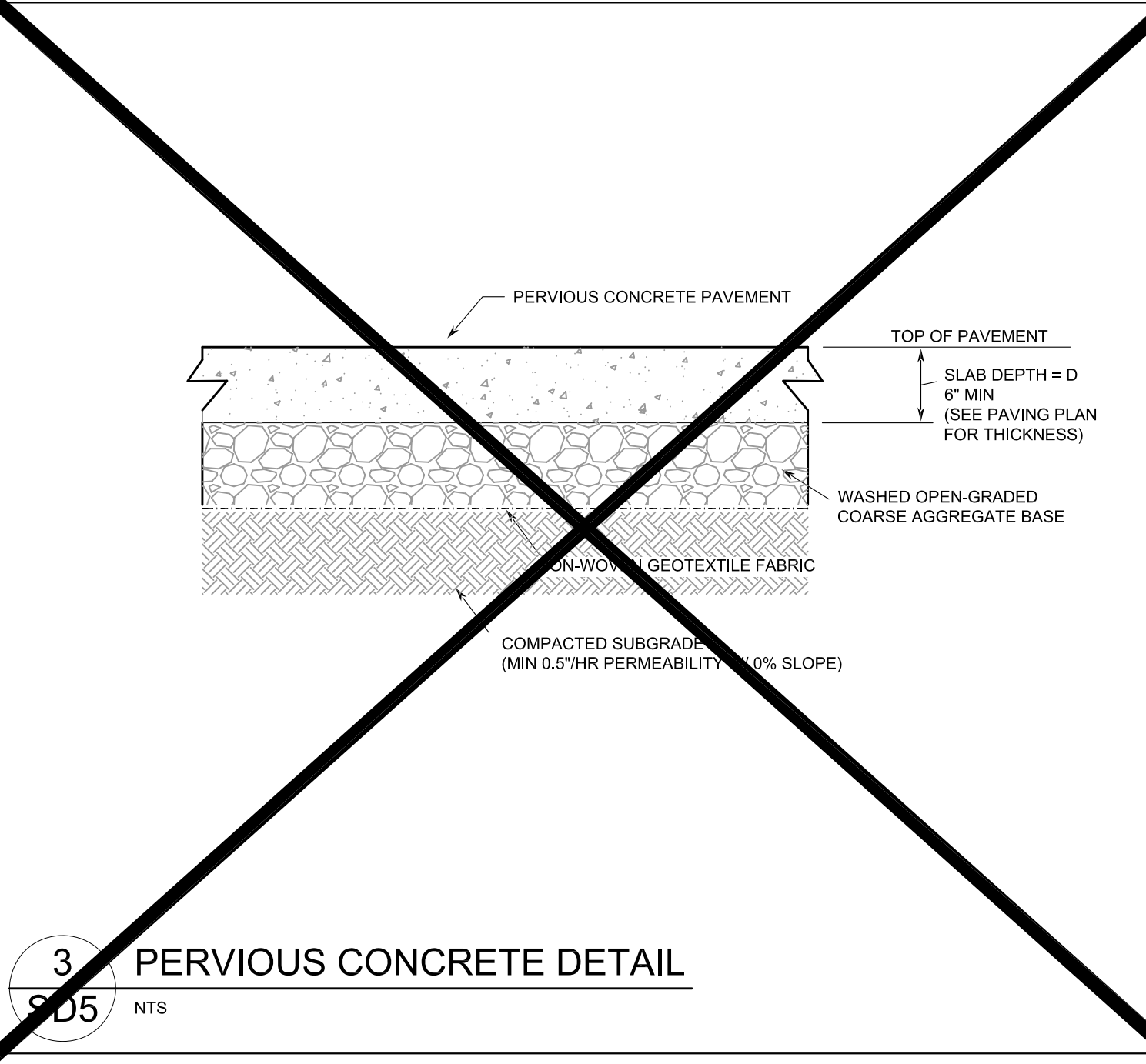




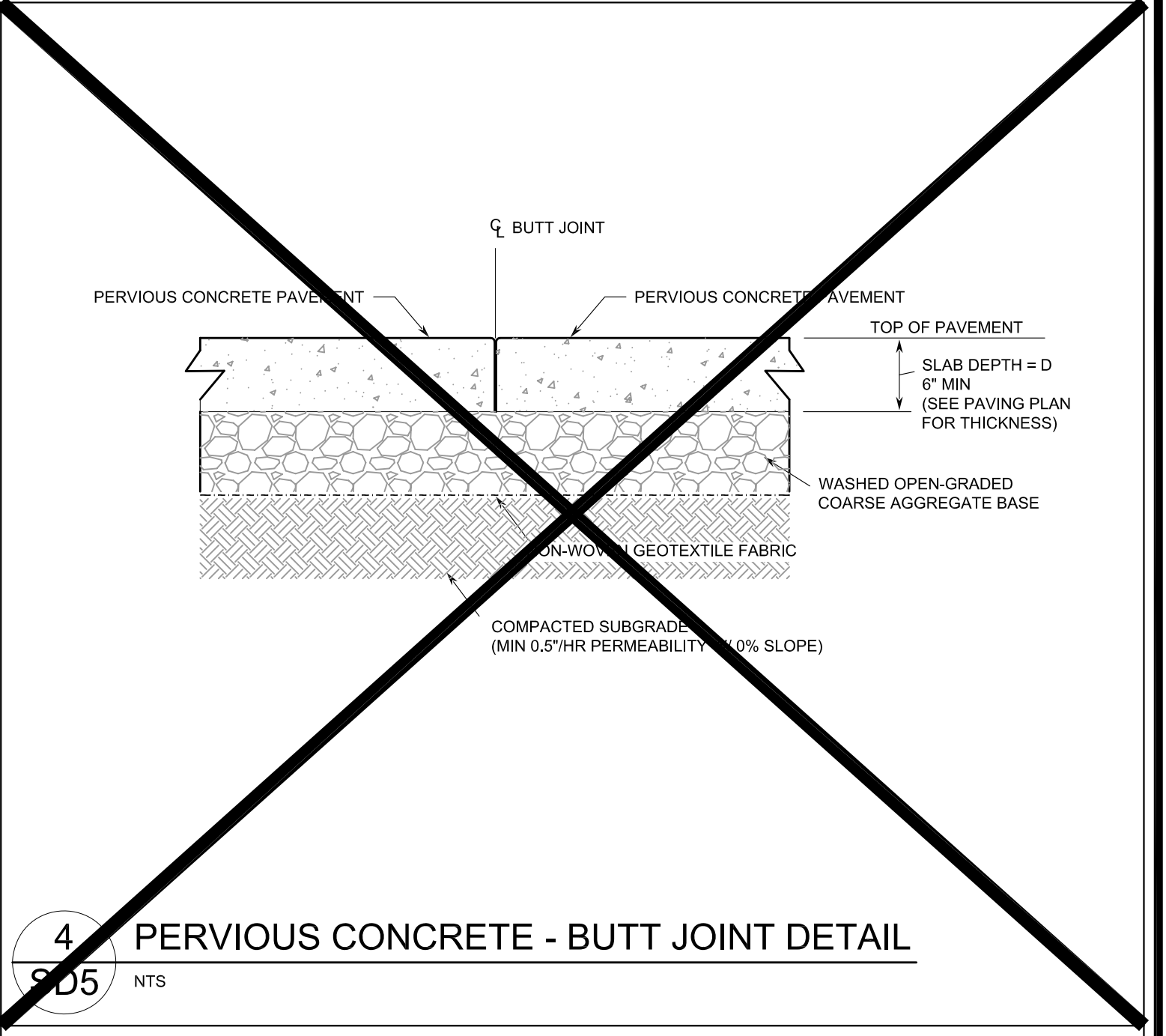
1 DECORATIVE PAVER SECTION DETAIL
SD5 NTS



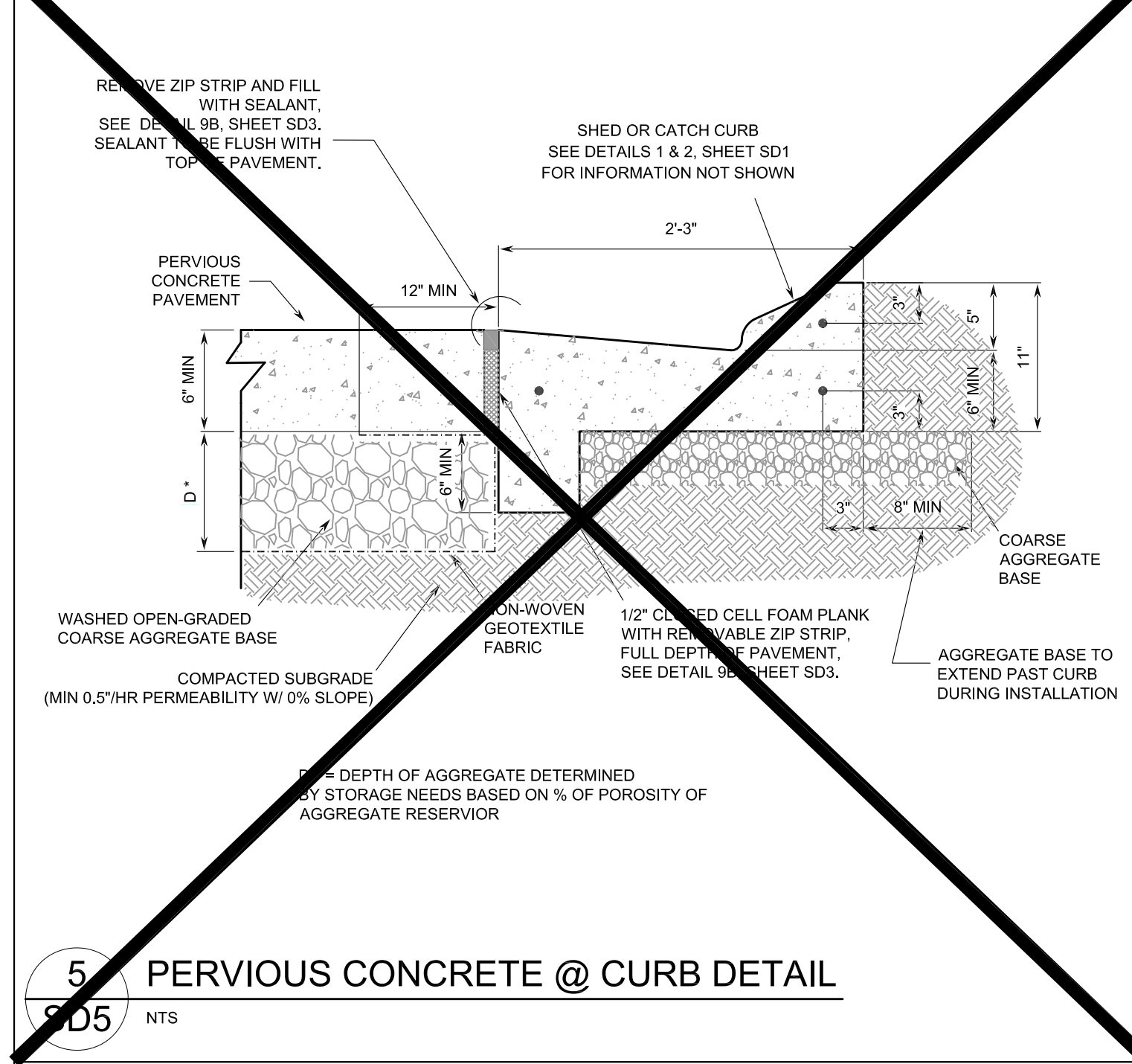
2 DECORATIVE PAVER PARTIAL PLAN
SD5 NTS



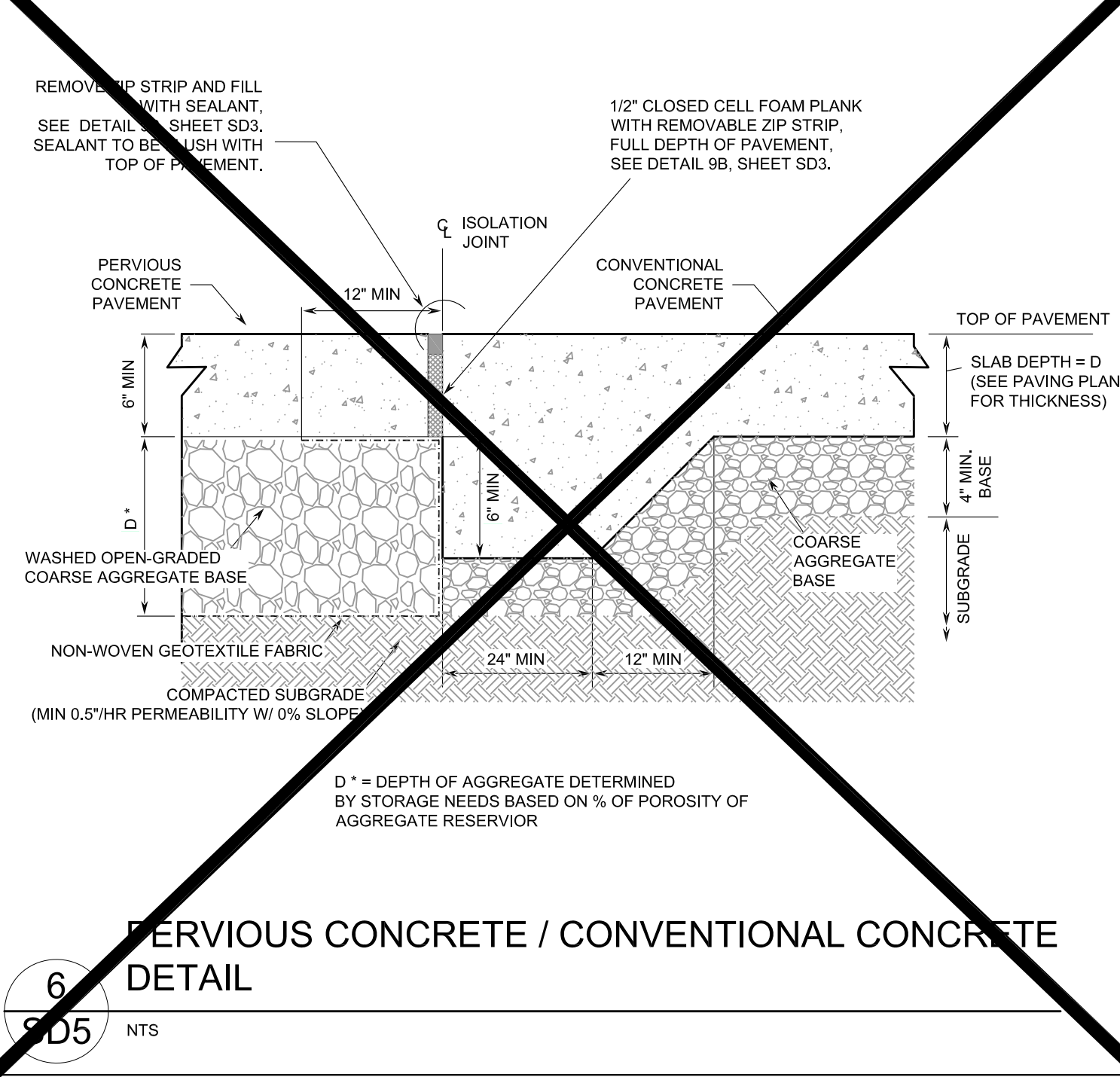
3 PERVIOUS CONCRETE DETAIL
SD5 NTS



4 PERVIOUS CONCRETE - BUTT JOINT DETAIL
SD5 NTS



5 PERVIOUS CONCRETE @ CURB DETAIL
SD5 NTS



6 PERVIOUS CONCRETE / CONVENTIONAL CONCRETE DETAIL
SD5 NTS



DATE	BY	CMF	09/25/22
REVISIONS	NO.	ISSUED FOR PERMITTING	BRP 11/15/19
DATE	BY	REVISED PER COMMENTS	CMF 09/25/22
DATE	BY	REVISIONS	CMF 09/25/22

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PAGE 10 OF 15 (3/20/20)

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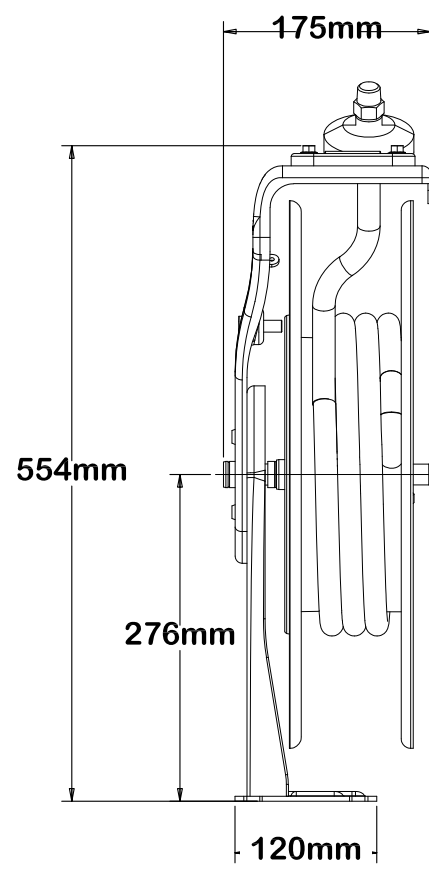
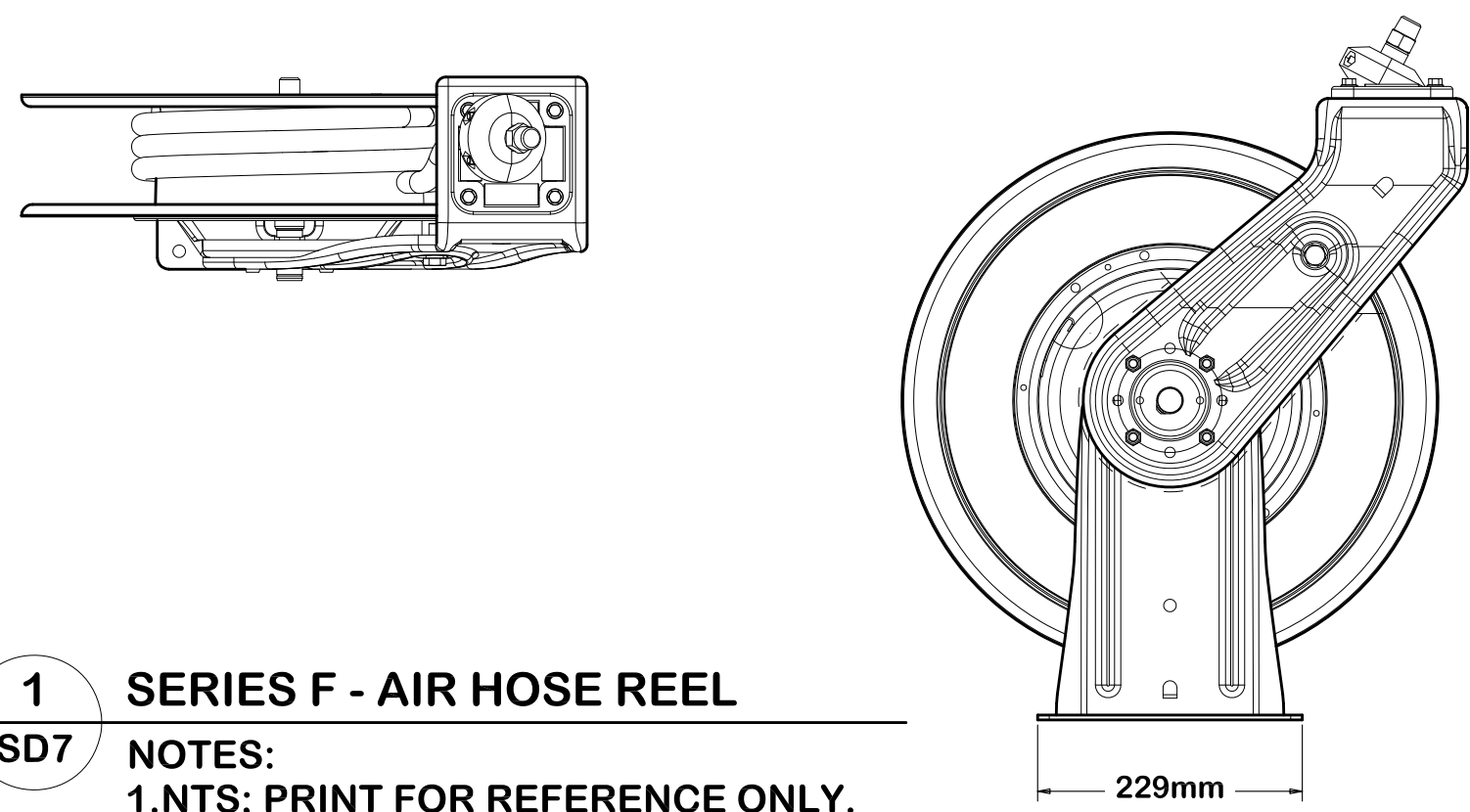
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RACETRAC #1422 - VERO BEACH

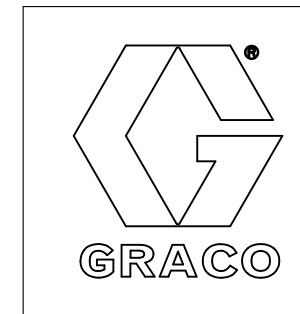
8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY CMF
DATE 07/01/2019
SCALE NTS
PROJECT NUMBER: 024-108
SD5 1
SHEET NO. VERSION



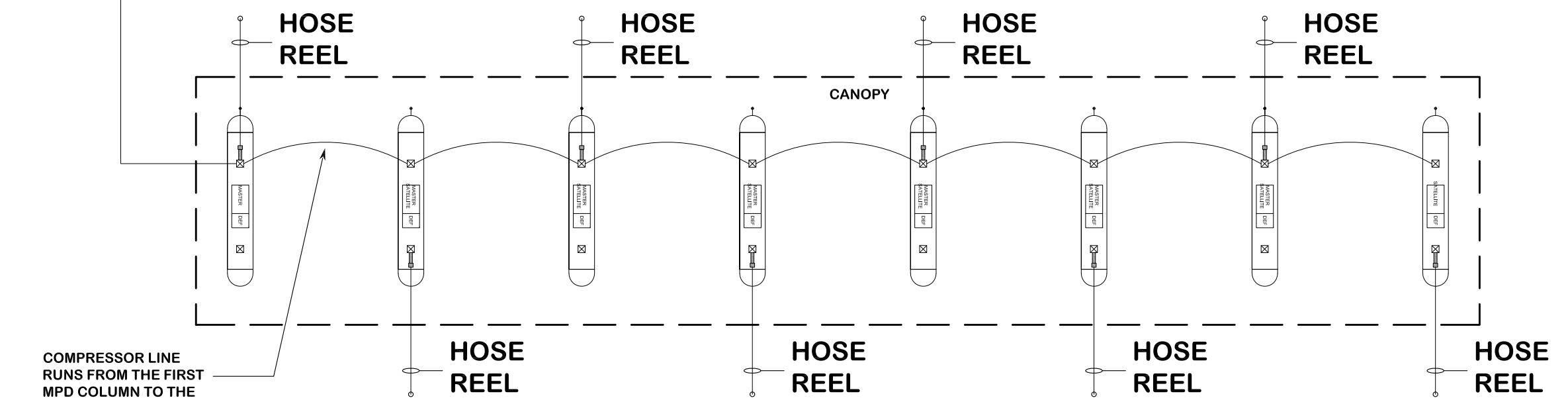
METRIC - ASME Y14.5M
 UNLESS OTHERWISE NOTED:
 DIMENSIONS ARE IN MILLIMETERS
 SILICONE-FREE STD 4.1208
 DIM & TOL STD 1.0402 & ASME Y14.5M - 1994
 TOLERANCES: SEE GRACO STANDARDS
 CENTERLINE VARIANCE STD 1.0409
 HOLES STD 1.0407
 SHEET METAL STD 4.0100
 PLATED & HT TR PARTS STD 1.0409
 BURRS & EDGES STD 1.0420
 THREADS STD 1.0425
 SURFACE ROUGHNESS STD 1.0445

DECIMALS ANGLES
 X .X .XX
 ±1 ±0.5 ±0.20 ±0.5°



1 SERIES F - AIR HOSE REEL
 SD7 NOTES:
 1. NTS; PRINT FOR REFERENCE ONLY.
 2. SEE MANUAL FOR MOUNTING DIMENSIONS

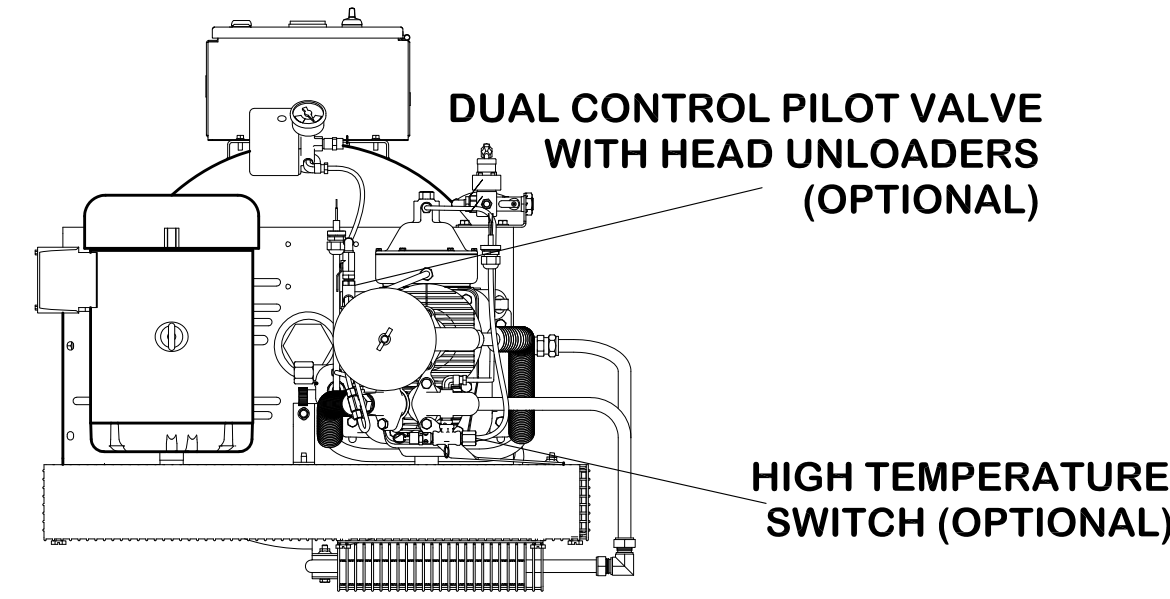
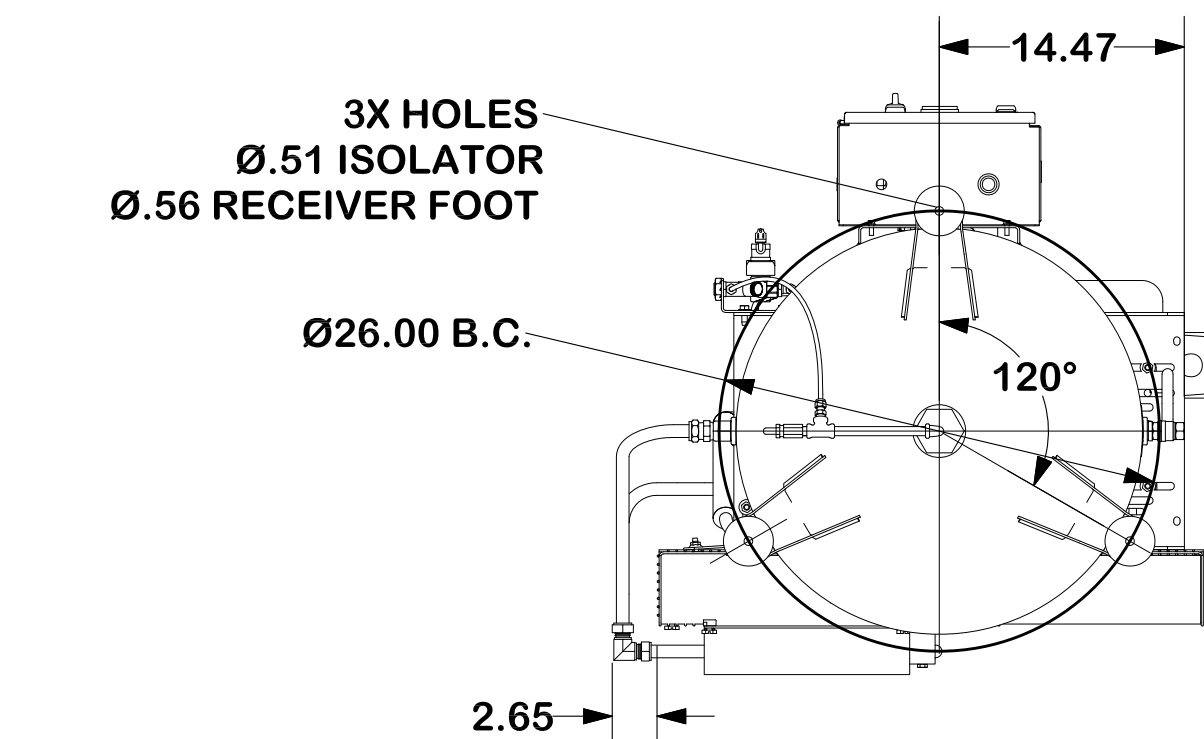
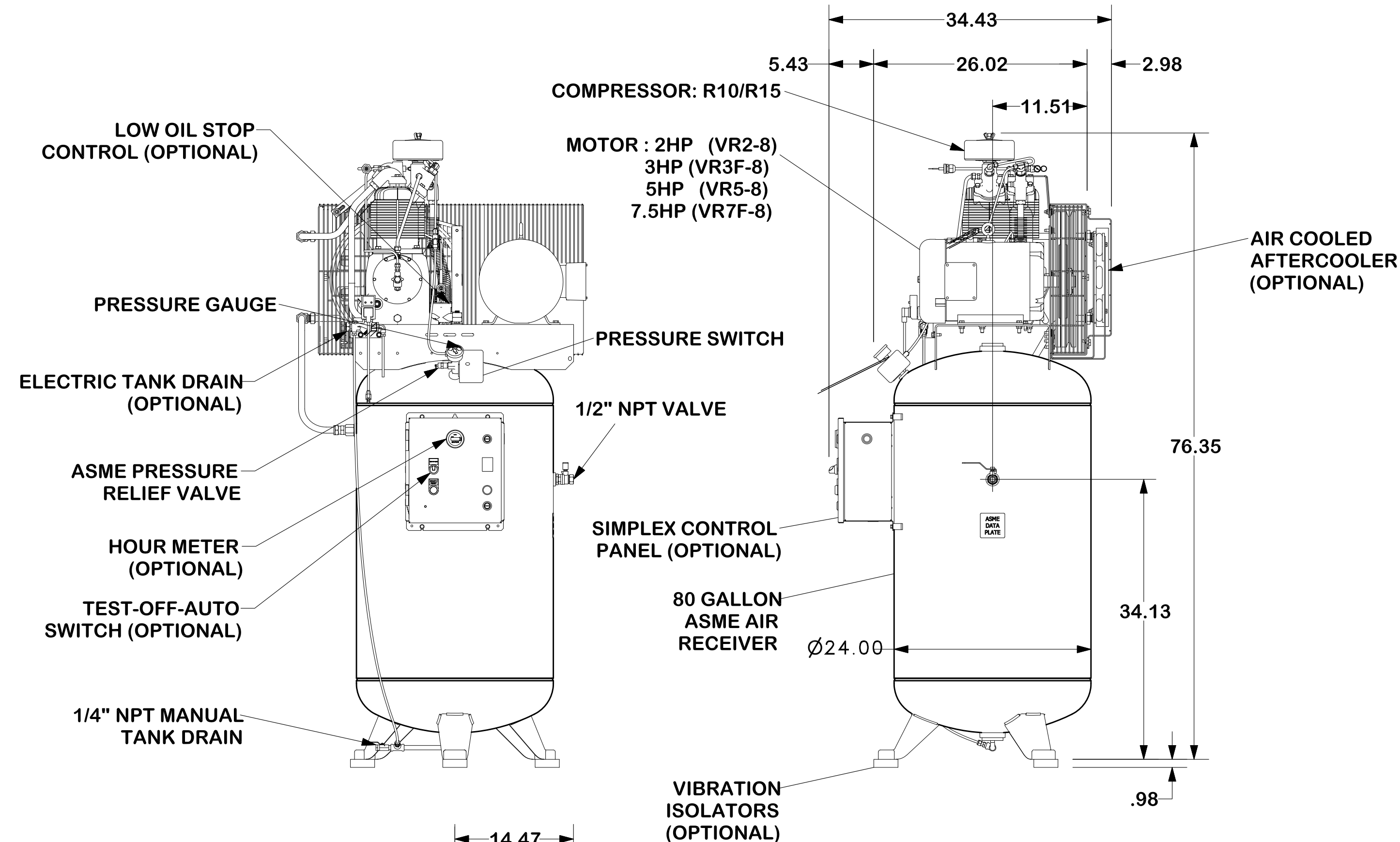
NEAREST APPROACH FROM COMPRESSOR UNIT STORE SIDE



APPROACH SIDE

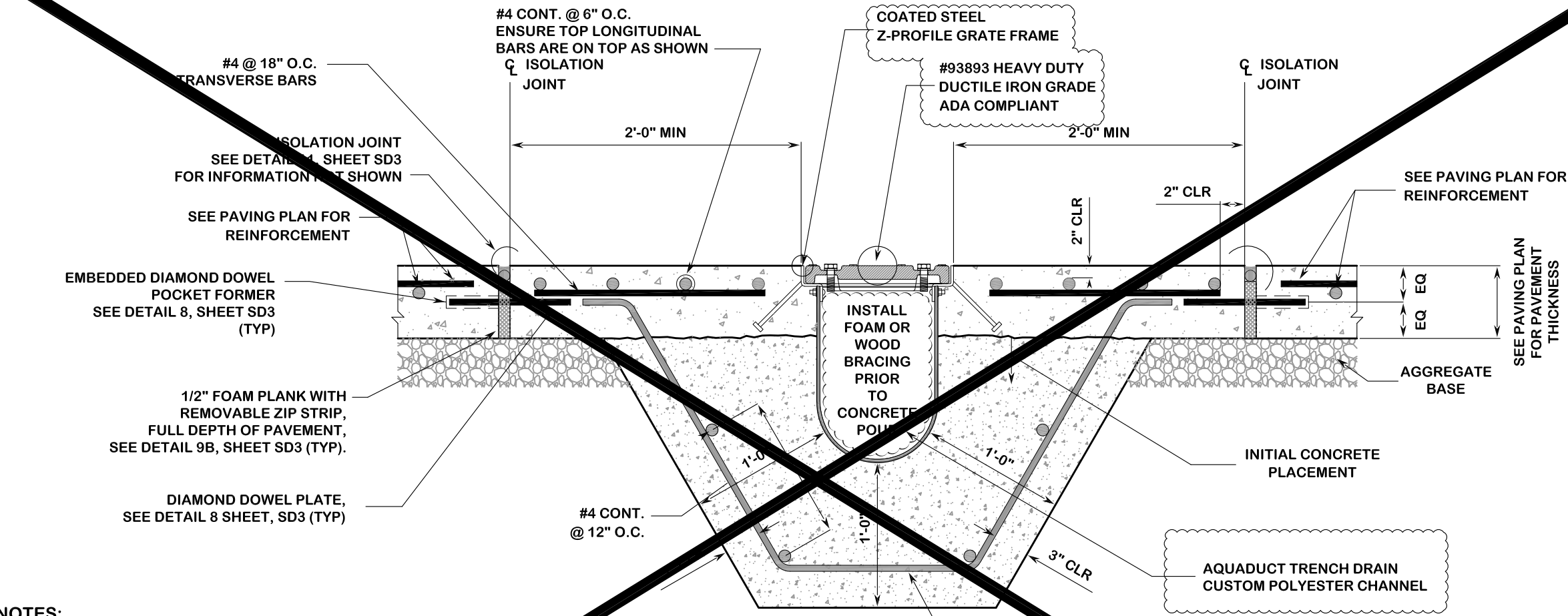
3 EDO CANOPY - AIR COMPRESSOR/HOSE LAYOUT

SD7 NOTES:
 1. NTS
 2. HOSE REEL LOCATION ALTERNATES FROM TO APPROACH SIDE
 3. REFERENCE 6/SD6 FOR ALL OTHER ACCESSORY LAYOUTS



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SURFACE ROUGHNESS MAXIMUM PER ASME B46.1. FULL THREAD DEPTHS ARE MINIMUM.	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES	DIMENSIONING AND TOLERANCING PER ASME Y14.5-2009 THREADS PER ASME B1.1 GAGING SYSTEM 21 U.O.S., ANSI B1.20.1 & B1.20.3
TOL. ON DECIMALS: .X = ±.05 TOL. ON DECIMALS: .XX = ±.02 TOL. ON DECIMALS: .XXX = ± AS SPECIFIED TOL. ON ANGLES: = ± 0'-30'	
THIRD ANGLE PROJECTION	Gardner Denver Inc. Quincy, IL.

2 8000-OUTLINE-BARE UNIT, 80GL ELECTRIC
 SD7 NOTES:
 1. NTS
 2. SPECIFICATIONS AND DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION.
 3. ALL DIMENSIONS ARE IN INCHES.



- NOTES:
 1. NOTE SPECIAL CROSSBAR CALLOUTS SPECIFIC TO EXTENDED DIESEL OFFER TRENCH DRAIN SYSTEM
 2. G.C. MUST READ INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION OF AQUADUCT TRENCH DRAIN.
 3. REFER TO DETAIL 6, SHEET SD2 FOR BRACING RECOMMENDATIONS.
 4. SOME PROJECTS MAY HAVE MULTIPLE TRENCH DRAINS ON SITE. (REFER TO "GRADING PLAN" FOR EXACT LOCATIONS.)
 5. EACH TRENCH DRAIN IS INDIVIDUALLY DESIGNED AND SIZED BY AQUADUCT, INC. (REFER TO DESIGN SPECS FOR EXACT SIZING.)
 6. REFERENCE 6/SD2 FOR BRACING DETAILS

4 TYP. CONCRETE DETAIL FOR RT EXTENDED DIESEL OFFER AQUADUCT CUSTOM 8" TRENCH DRAIN SYSTEM

SD7 NTS



DATE	BY	REVISED PER COMMENTS	CMF	09/25/22
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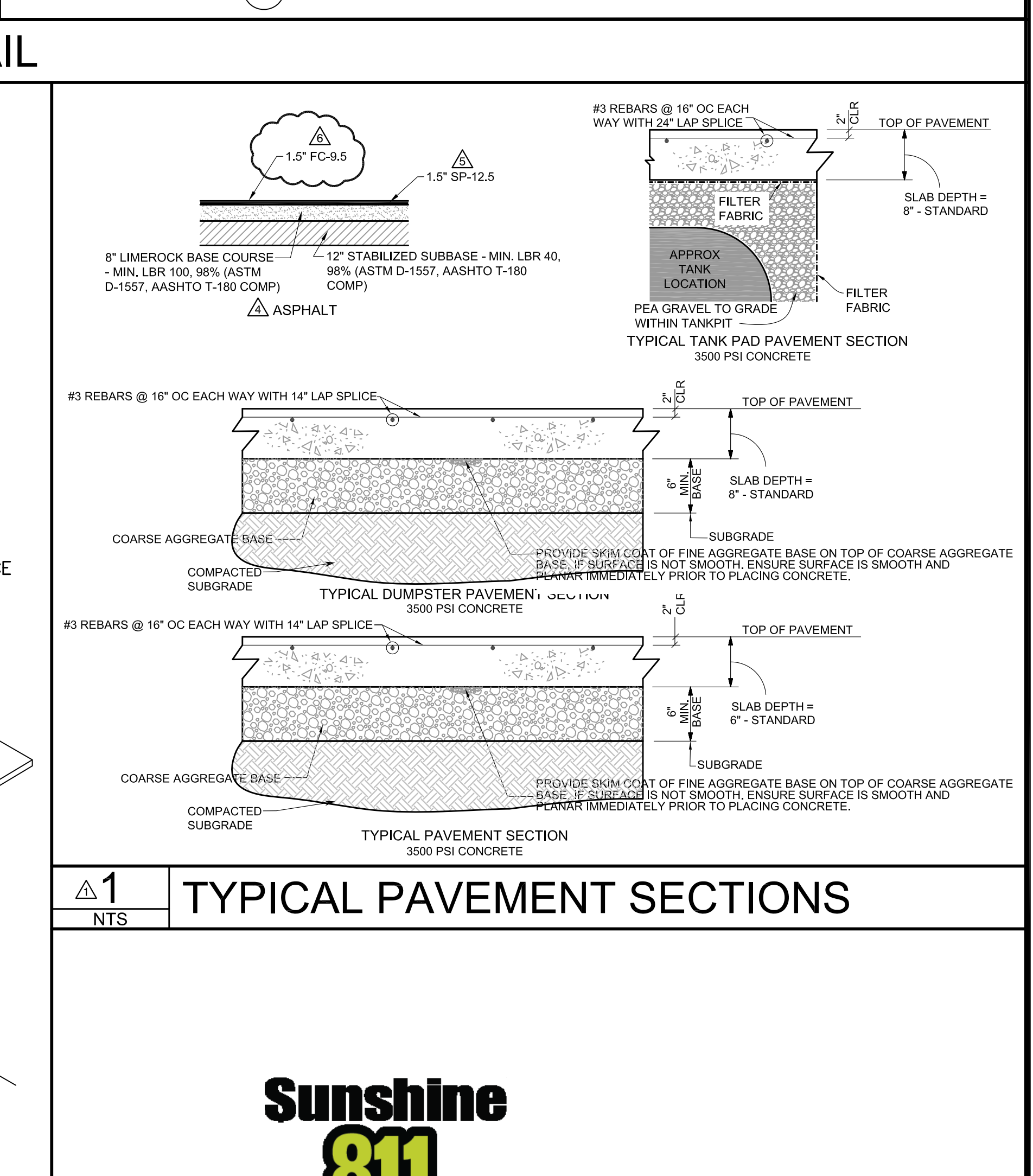
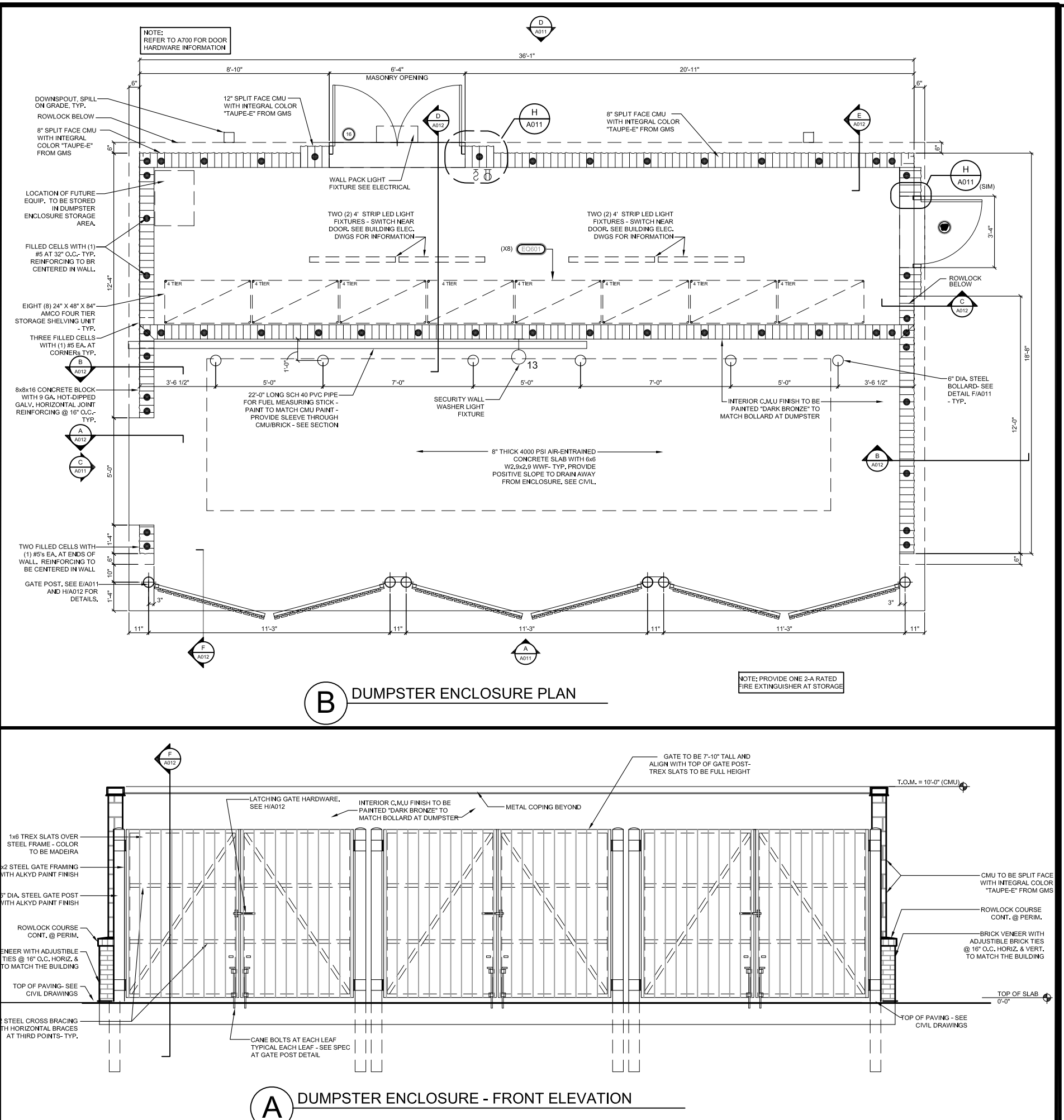
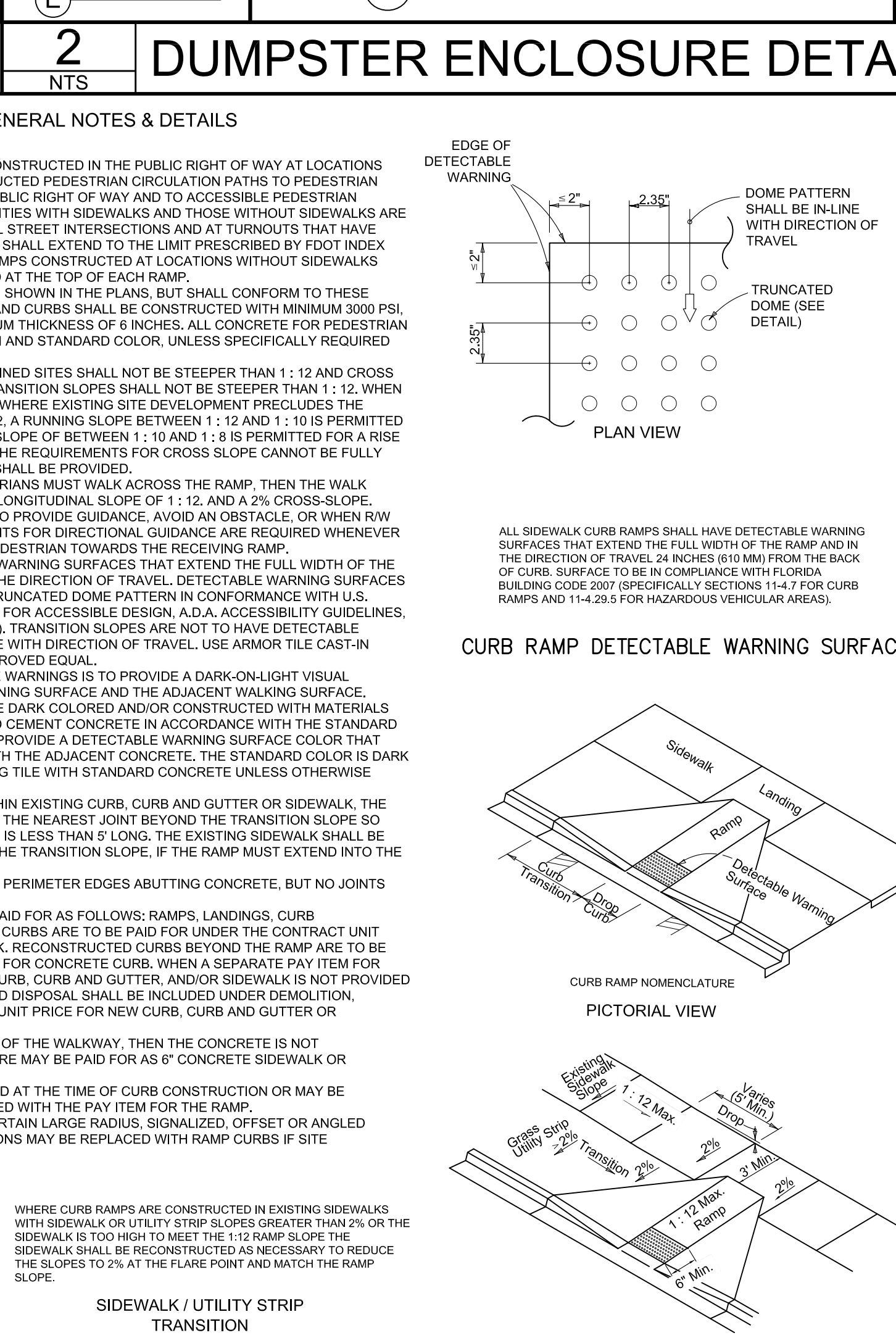
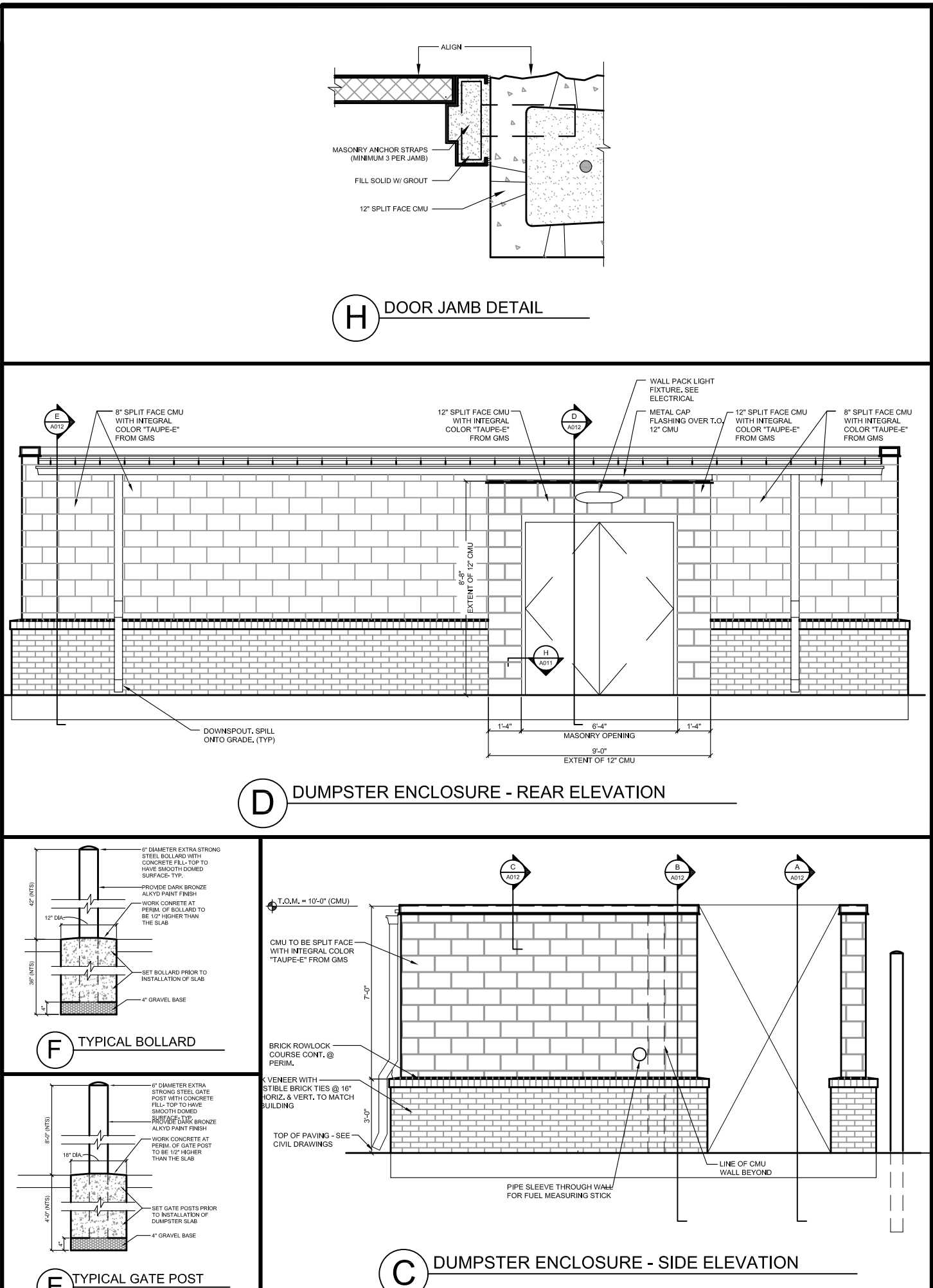
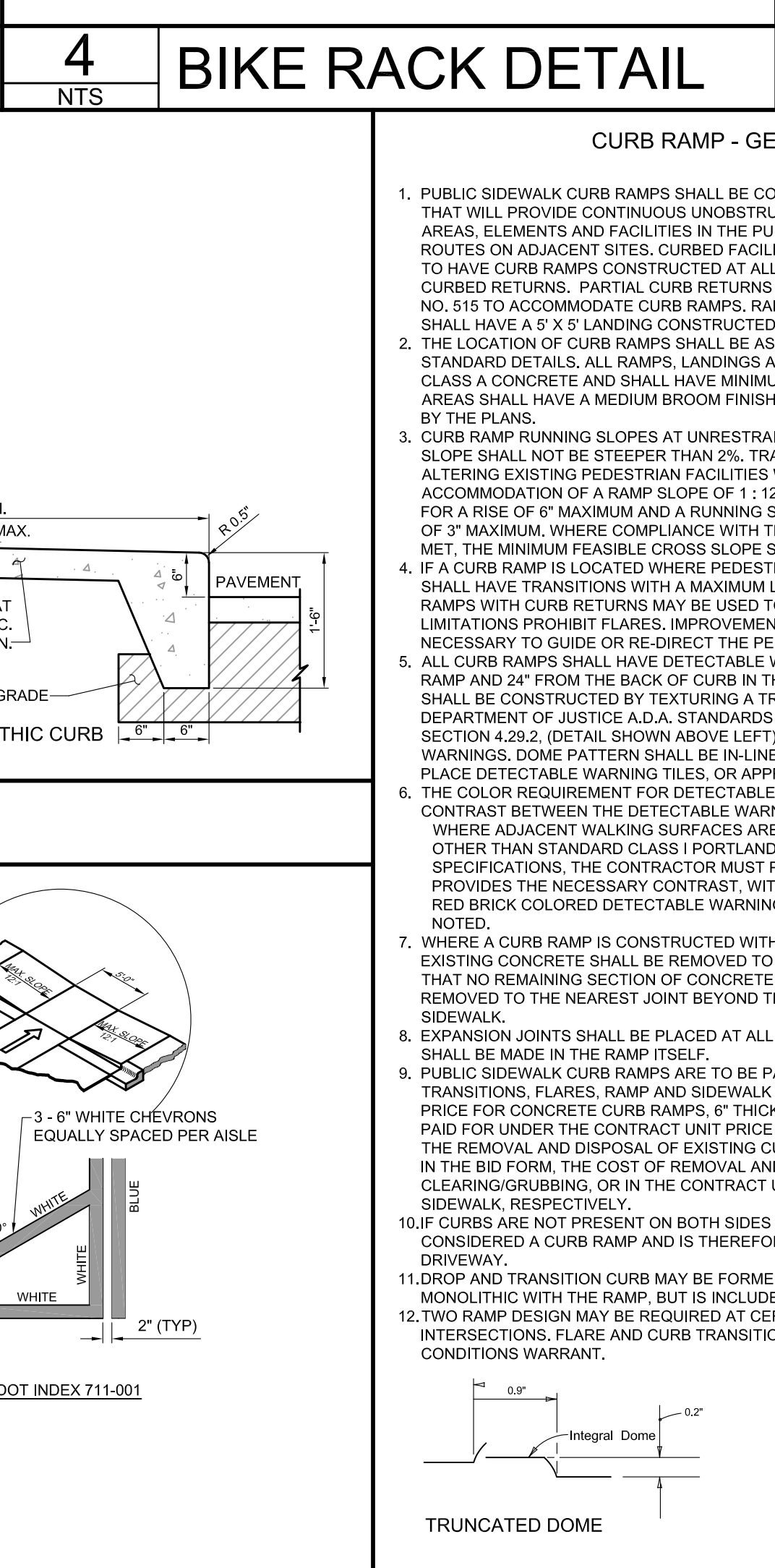
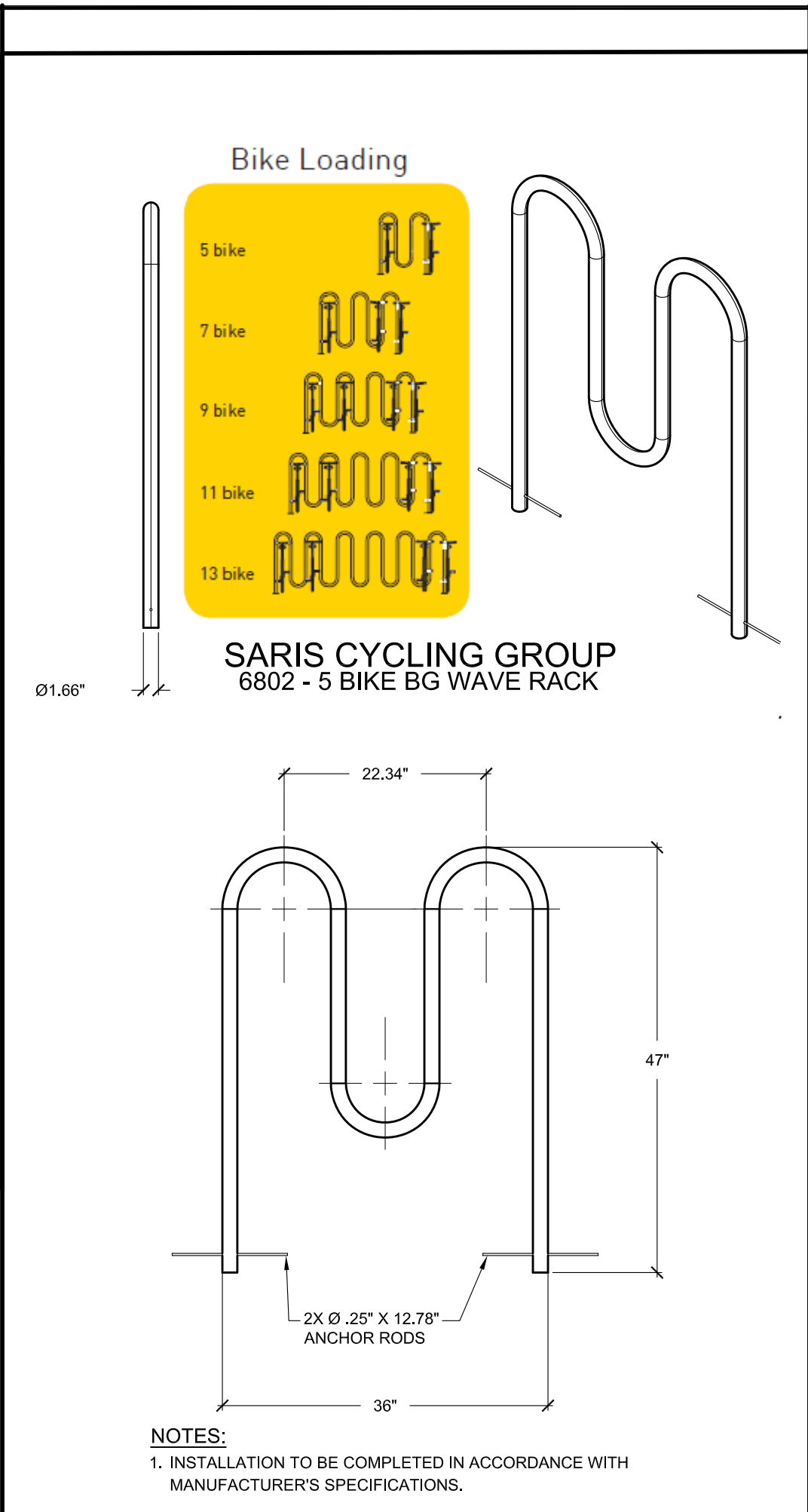
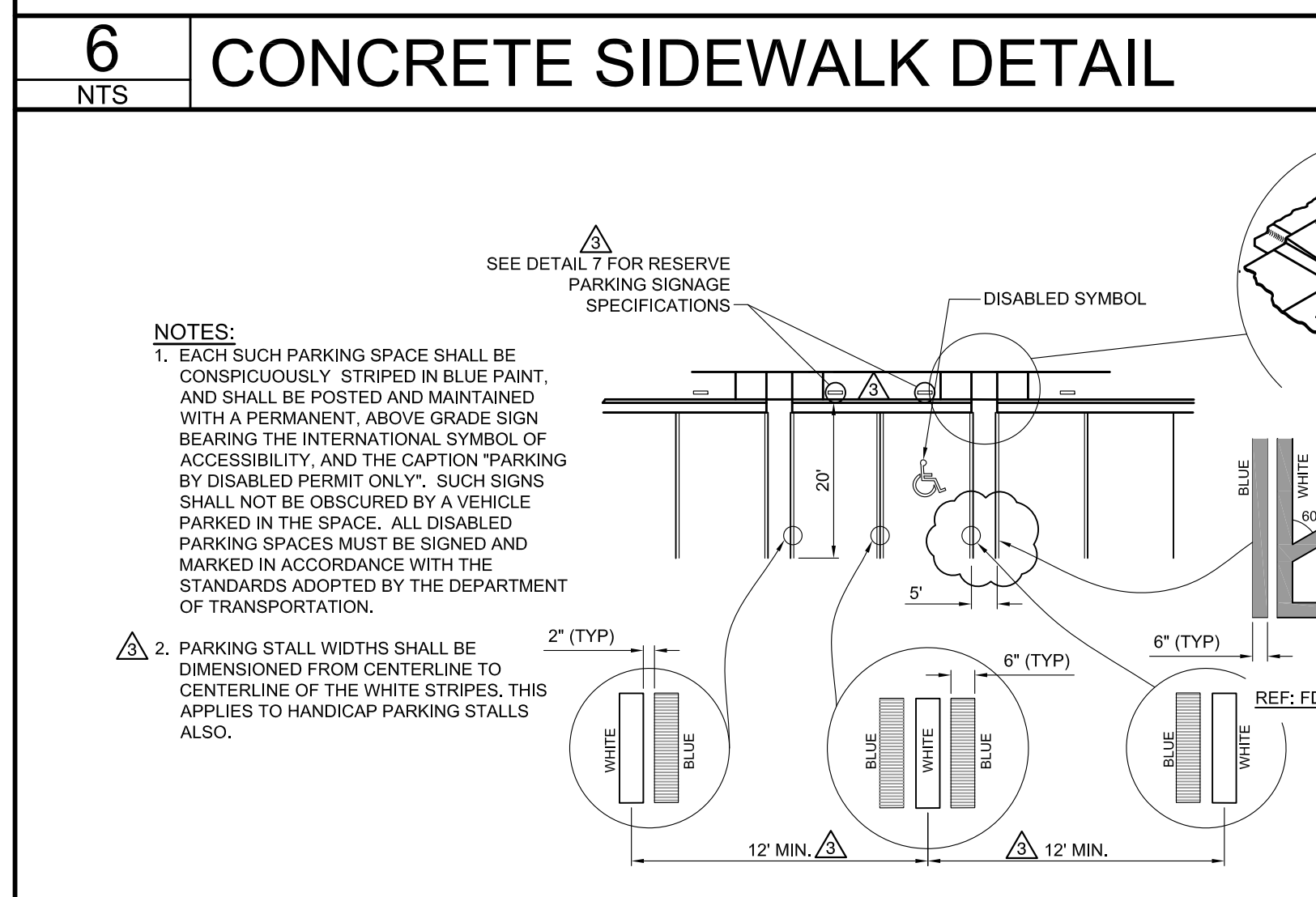
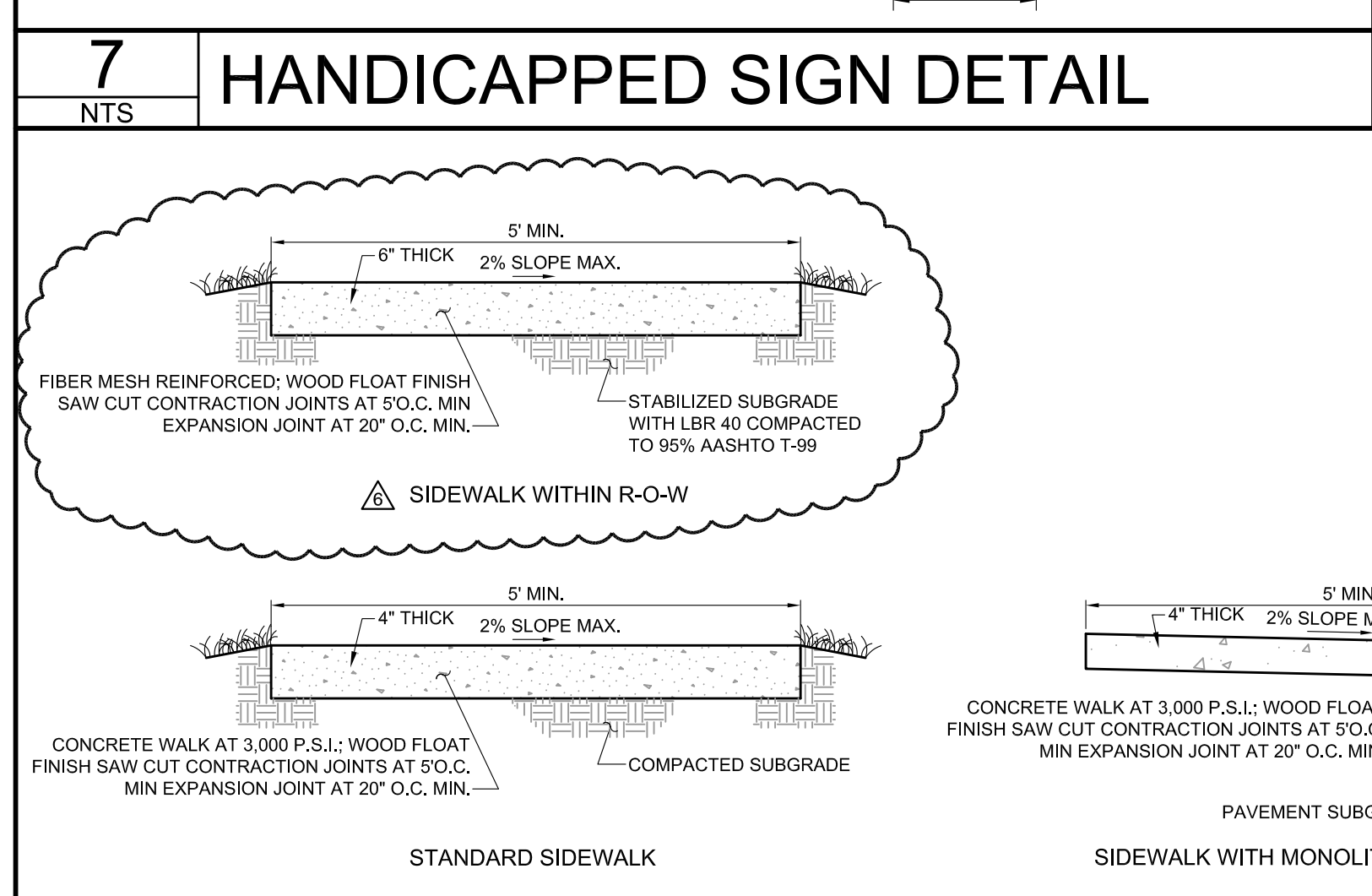
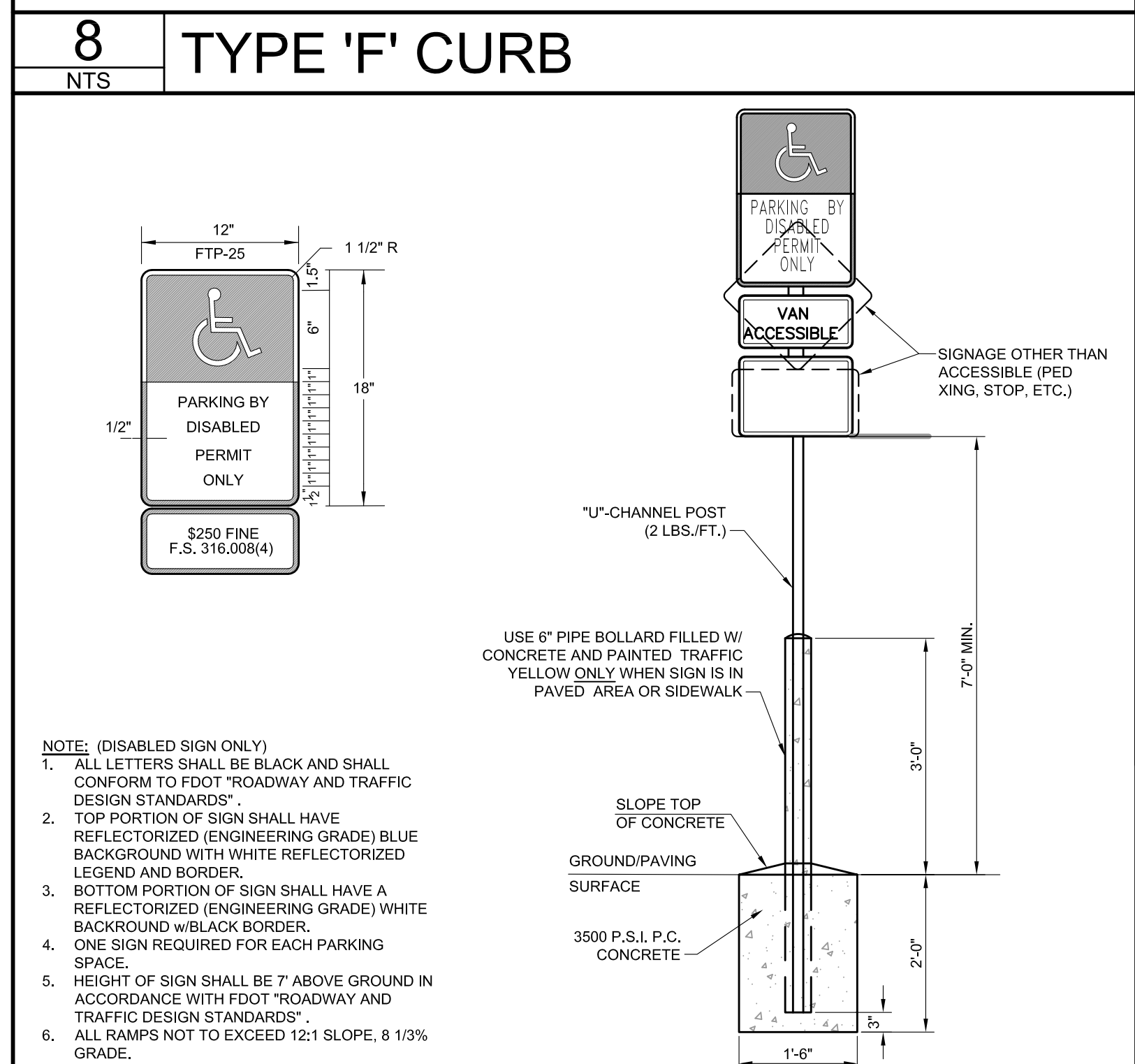
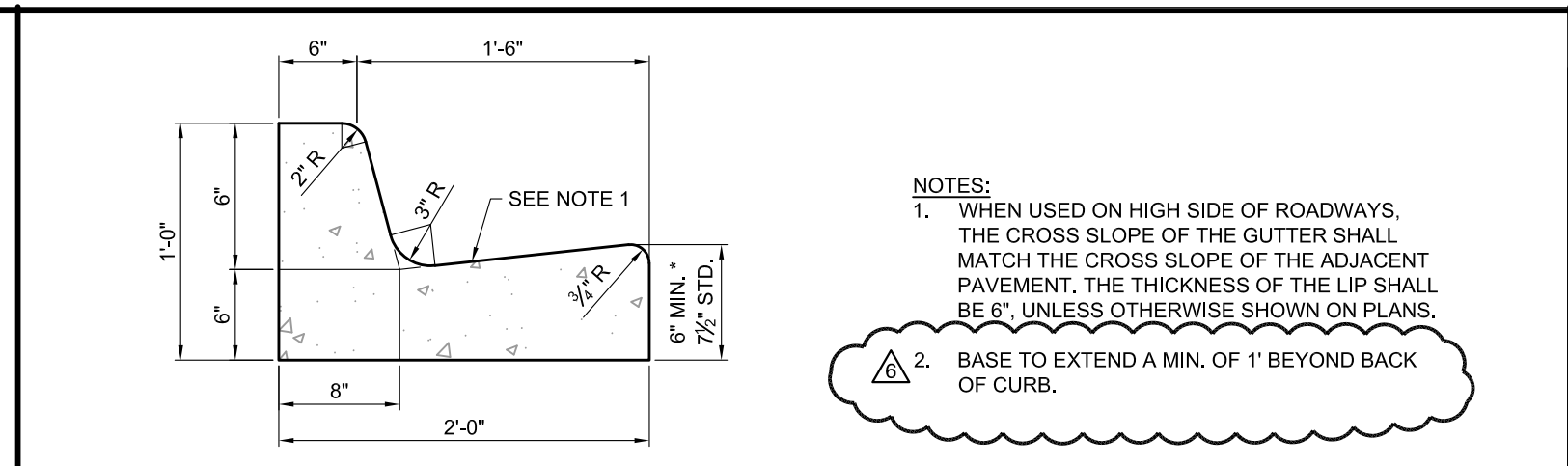
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 200 GALLERIA PARKWAY S.E., SUITE 900
 ATLANTA, GA 30339
 (770) 431-7600

RACETRAC STANDARD DETAILS
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

DRAWN-BY	CMF
DATE	07/01/2019
SCALE	NTS
PROJECT NUMBER:	024-108
SD7	1
SHEET NO.	VERSION



THESE PLANS ARE PREPARED IN COMPLIANCE WITH SECTION 105.05(1) OF THE FLORIDA STATUTES.

REVISED PER FOOT COMMENTS
 04/29/21
 03/30/21
 02/22/21
 12/10/20
 10/10/20
 09/18/20
 11/15/19

BY: [Signature]
 DATE: [Date]

REVISIONS

TANNATH DESIGN, INC.
 2484 ROSE SPRING DRIVE
 ORLANDO, FLORIDA 32825
 (407) 982-0878
 www.tannathdesign.com
 FL. CERT. OF AUTH. #27199

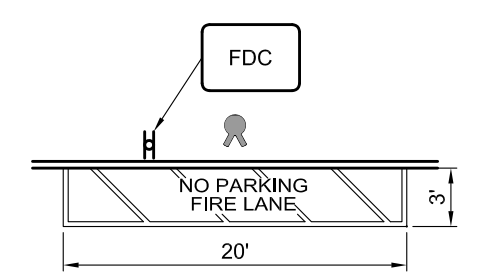
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Racetrac
 RACETRAC PETROLEUM, INC.
 3225 CUMBERLAND BOULEVARD, SUITE 100
 ATLANTA, GA 30339
 (770) 431-7600

PAVING DETAILS
 RACETRAC #1422 - VERO BEACH
 8990 20TH STREET
 VERO BEACH, FL 32966
 INDIAN RIVER COUNTY

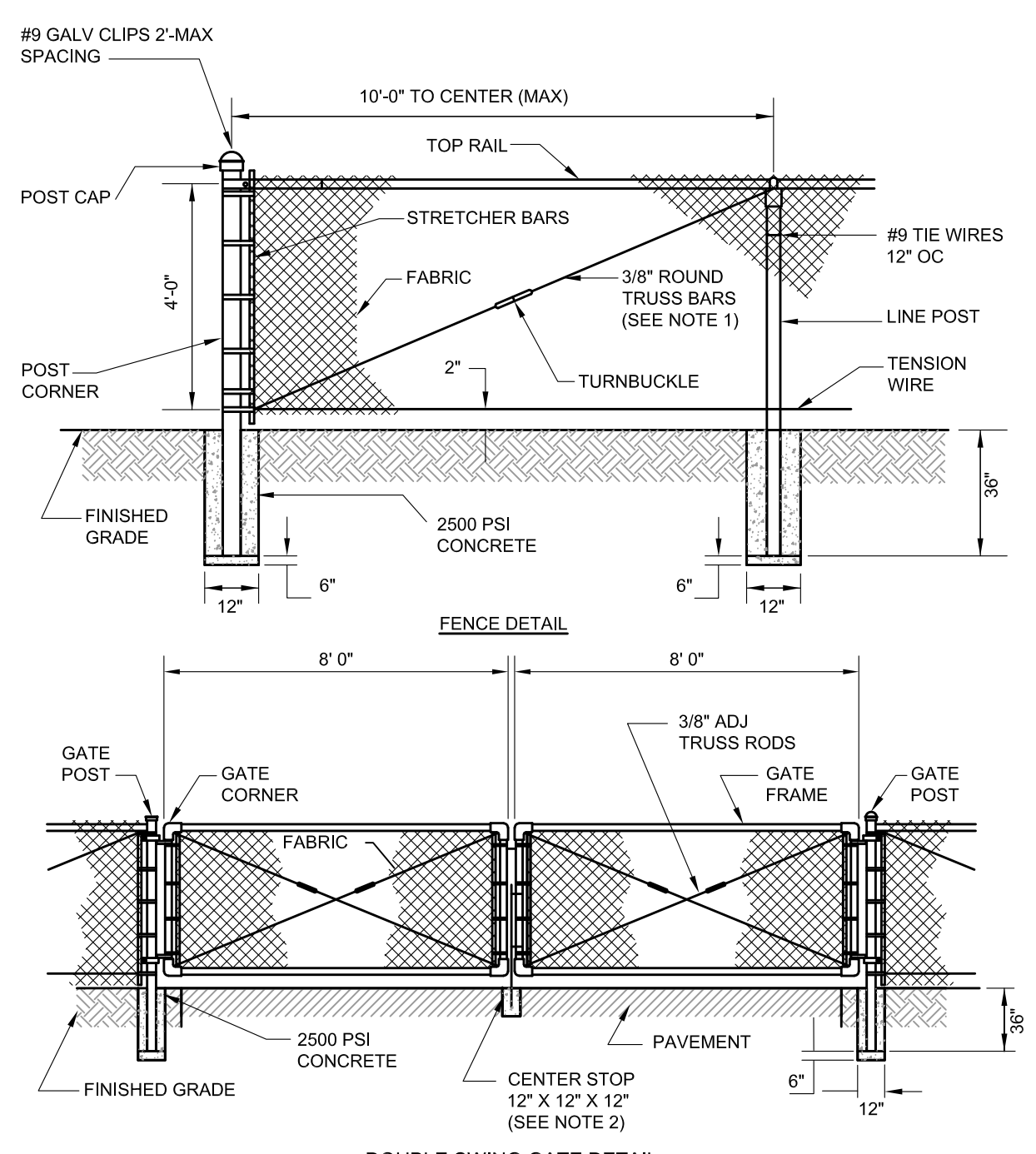
DRAWN-BY: CMF
 DATE: 07/01/19
 SCALE: NTS
 PROJECT NUMBER: 024-108
 SHEET NO. C-6.0
 VERSION 5

Sunshine 811

3 NTS	FIRE LANE SIGN & STRIPING
<p>FDC SIGN:</p> <p>LOCATION: AT LEAST ONE PER FIRE LANE (MINIMUM) AND AT LEAST ONE EVERY 100 FEET</p> <p>HEIGHT: 8 FEET ABOVE FINISHED SURFACE GRADE</p> <p>TYPE SIGN: RETROREFLECTIVE SHEETING MATERIALS WITH PRISMS. SHALL BE DOUBLE FACED IF VEHICLES CAN APPROACH ON EITHER SIDE. 0.08 ALUMINUM CONSTRUCTION.</p> <p>SIGN SHALL READ: FDC</p> <p>LETTER SIZE: 3 INCHES, CLEAR TYPE</p> <p>SIZE OF SIGN: 12 INCHES WIDE X 12 INCHES HIGH</p> <p>COLOR OF LETTERS: WHITE</p> <p>COLOR OF SIGN: RED</p>	 <p>PAVEMENT SURFACE MARKINGS:</p> <p>PHYSICAL LAYOUT BORDER: SHALL EXTEND 3 FEET FROM CURB</p> <p>STRIPES WITHIN BORDER: SHALL BE 4 INCHES WIDE AND SHALL BE ON 5 FOOT CENTERS AT 45° ANGLE WHERE PRACTICABLE</p> <p>COLOR OF STRIPES & LETTERING: WHITE</p> <p>SIZE OF LETTERING: 4 INCHES WIDE & 18 TO 24 INCHES HIGH</p> <p>CURBING COLOR: RED</p> <p>LETTERING REQUIRED: NO PARKING FIRE LANE</p>
	<p>FIRE DEPARTMENT ACCESS XXXX STREET NAME</p> <p>CONSTRUCTION FIRE ACCESS SIGN:</p> <p>LOCATION: ONE AT EACH CONSTRUCTION ENTRANCE</p> <p>HEIGHT: BOTTOM OF SIGN 6" ABOVE GRADE</p> <p>SIGN SHALL READ: "FIRE DEPARTMENT ACCESS" AND SITE ADDRESS</p> <p>LETTER SIZE: 4 INCHES AND 2 1/2 INCHES FOR ADDRESS</p> <p>SIZE OF SIGN: 4' X 4', DOUBLE SIDED</p> <p>COLOR OF LETTERS: WHITE</p> <p>COLOR OF SIGN: RED</p>

2 CHAINLINK FENCE

2
NTS



NOTES:

- TRUSS BARS ARE REQUIRED FOR EACH GATE SECTION AND THE FIRST SPAN ON EACH SIDE OF A CORNER POST ONLY.
- PROVIDE CHAIN AND LOCK FOR SECURING GATE.
- FENCING SHALL BE BLACK VINYL CLAD.

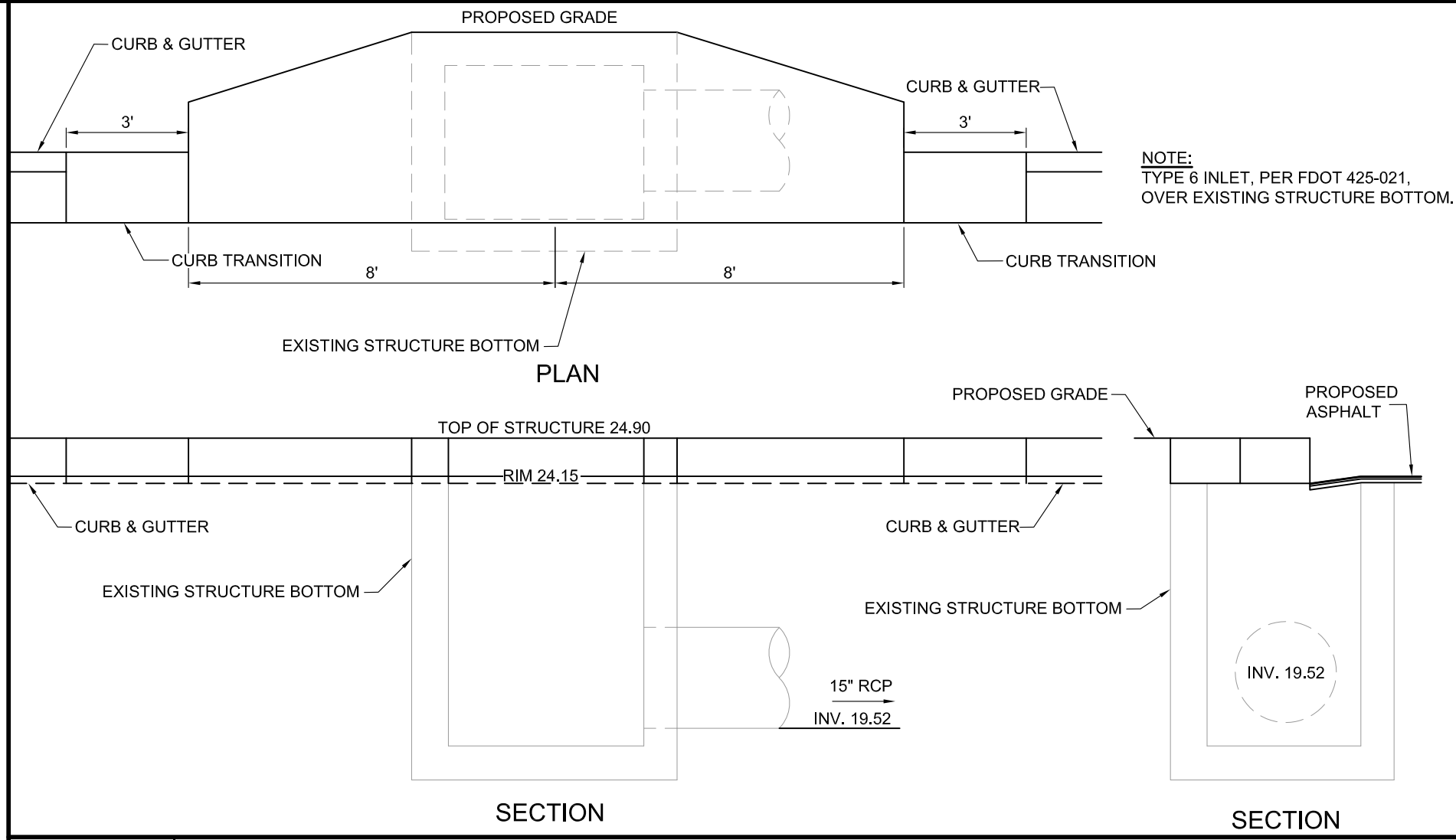
1 DIRECTIONAL SIGNS DETAIL

1
NTS



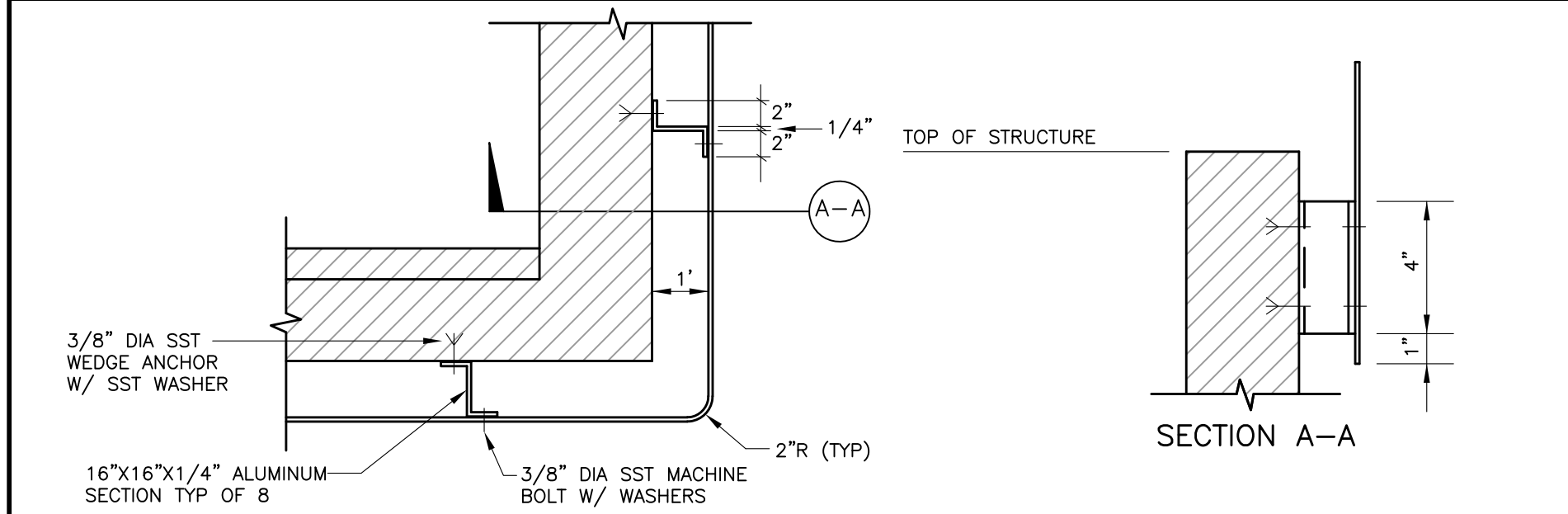
<p style="font-size: 8px;">THESE PLANS ARE PREPARED IN COMPLIANCE WITH FAC 10 (F.S. 320.01)</p> <p style="font-size: 8px;">TANNATH DESIGN, INC. 2484 ROSE SPRING DRIVE ORLANDA, FLORIDA 32825 (407) 982-0978 www.tannathdesign.com FL. CERT. OF AUTH. #27199</p>	<p style="text-align: center;">TP</p> <p style="font-size: 8px;">THESE PLANS ARE SUBJECT TO FEDERAL COPYRIGHT LAWS. ANY USE OF SAME WITHOUT THE EXPRESS WRITTEN PERMISSION OF PETROLEUM, INC. IS PROHIBITED.</p> <p style="text-align: center;">Racetrac</p> <p style="font-size: 8px;">RACETRAC PETROLEUM, INC. 3225 CUMBERLAND BOULEVARD, SUITE 100 ATLANTA, GA 30339 (770) 431-7600</p>
<p style="font-size: 8px;">DRAWN-BY: CMF DATE: 07/01/19 SCALE: NTS PROJECT NUMBER: 024-108</p>	<p style="font-size: 8px;">PAVING DETAILS RACETRAC #1422 - VERO BEACH 8990 20TH STREET VERO BEACH, FL 32966 INDIAN RIVER COUNTY</p>
<p style="font-size: 12px;">C-6.1</p>	<p style="font-size: 12px;">1</p>
SHEET NO.	VERSION
BY: BRP	DATE: 12/1/20
REVISIONS	NO.





8
NTS

STS 19

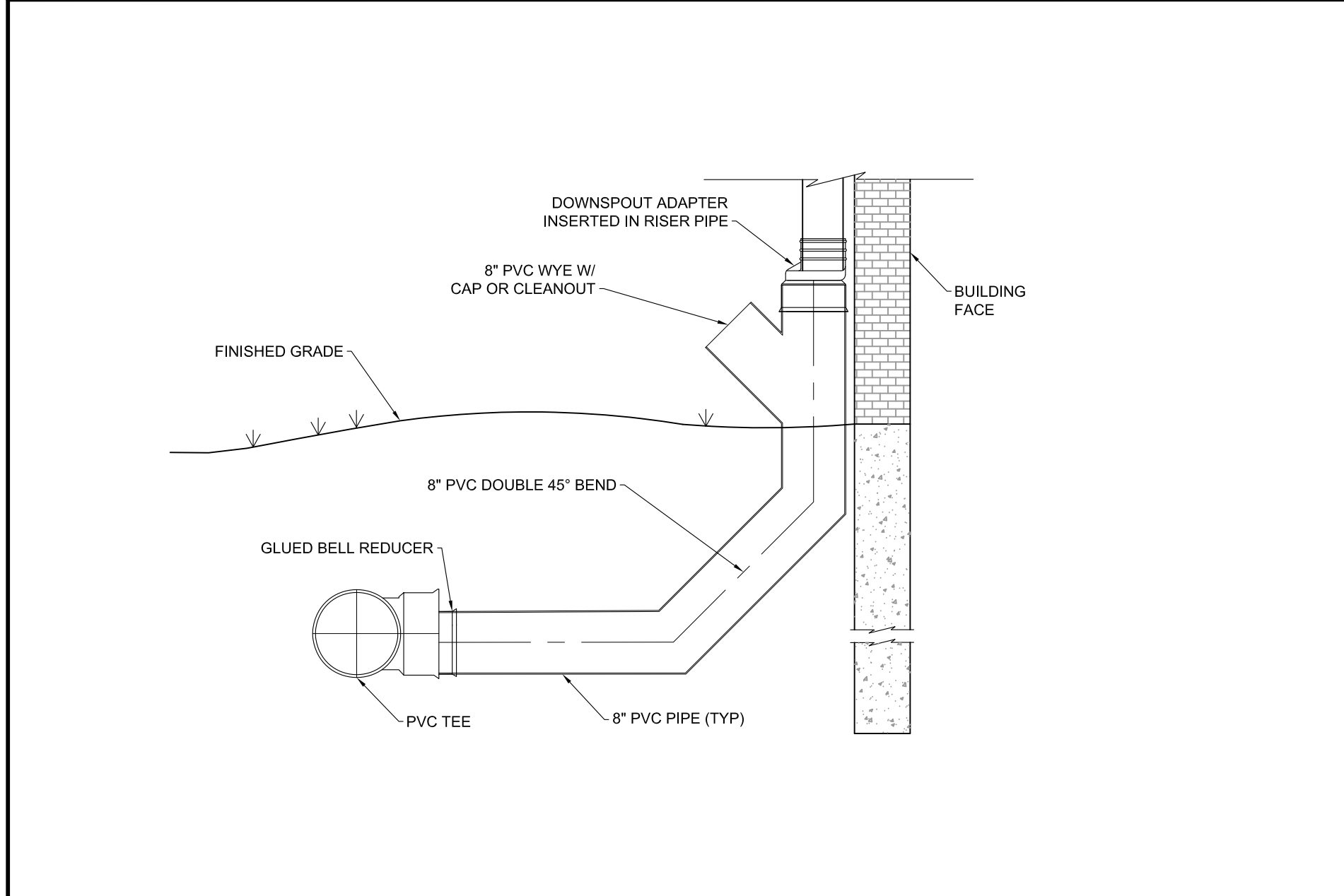


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NTS

SKIMMER ATTACHMENT DETAIL

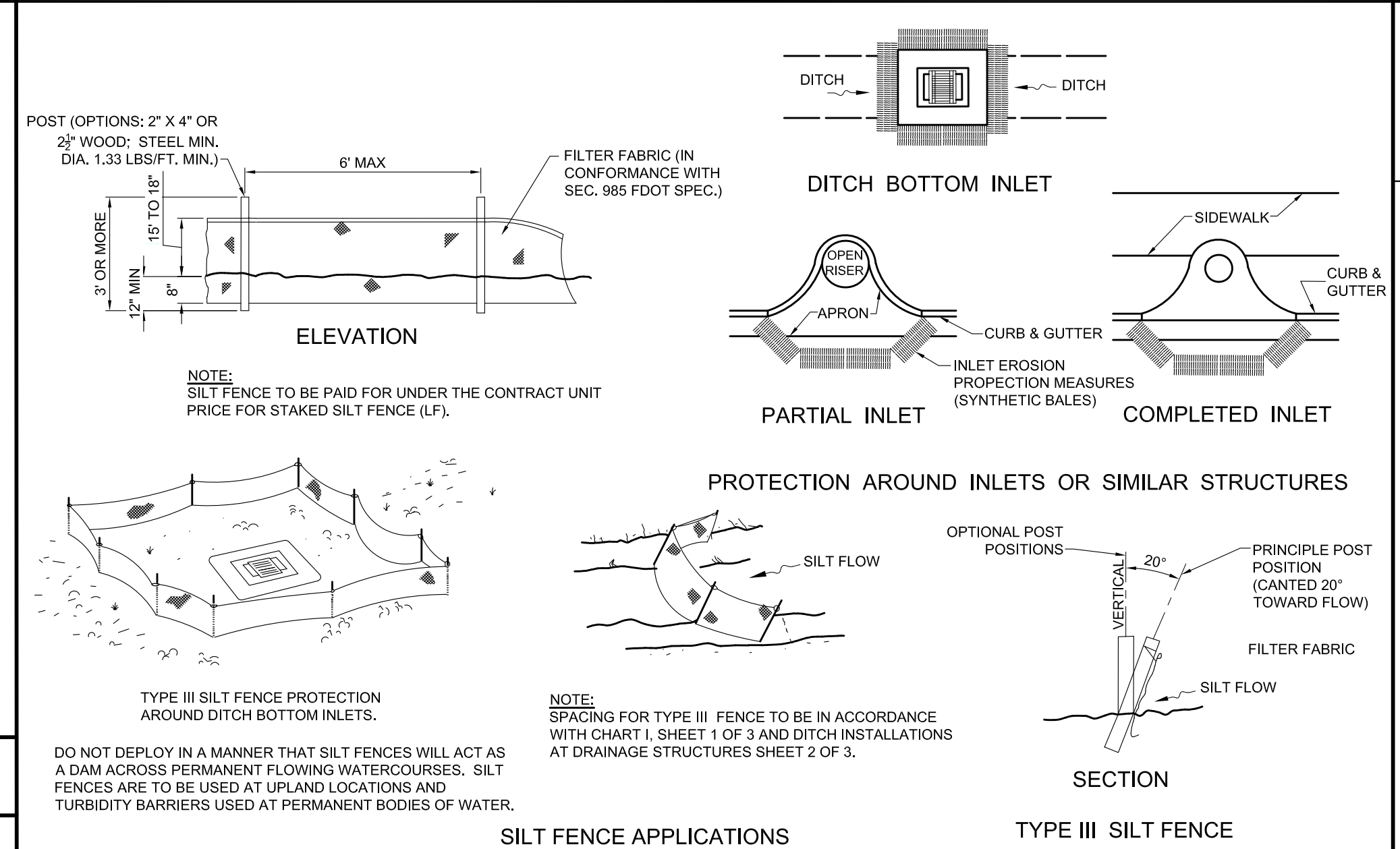
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NOT USED



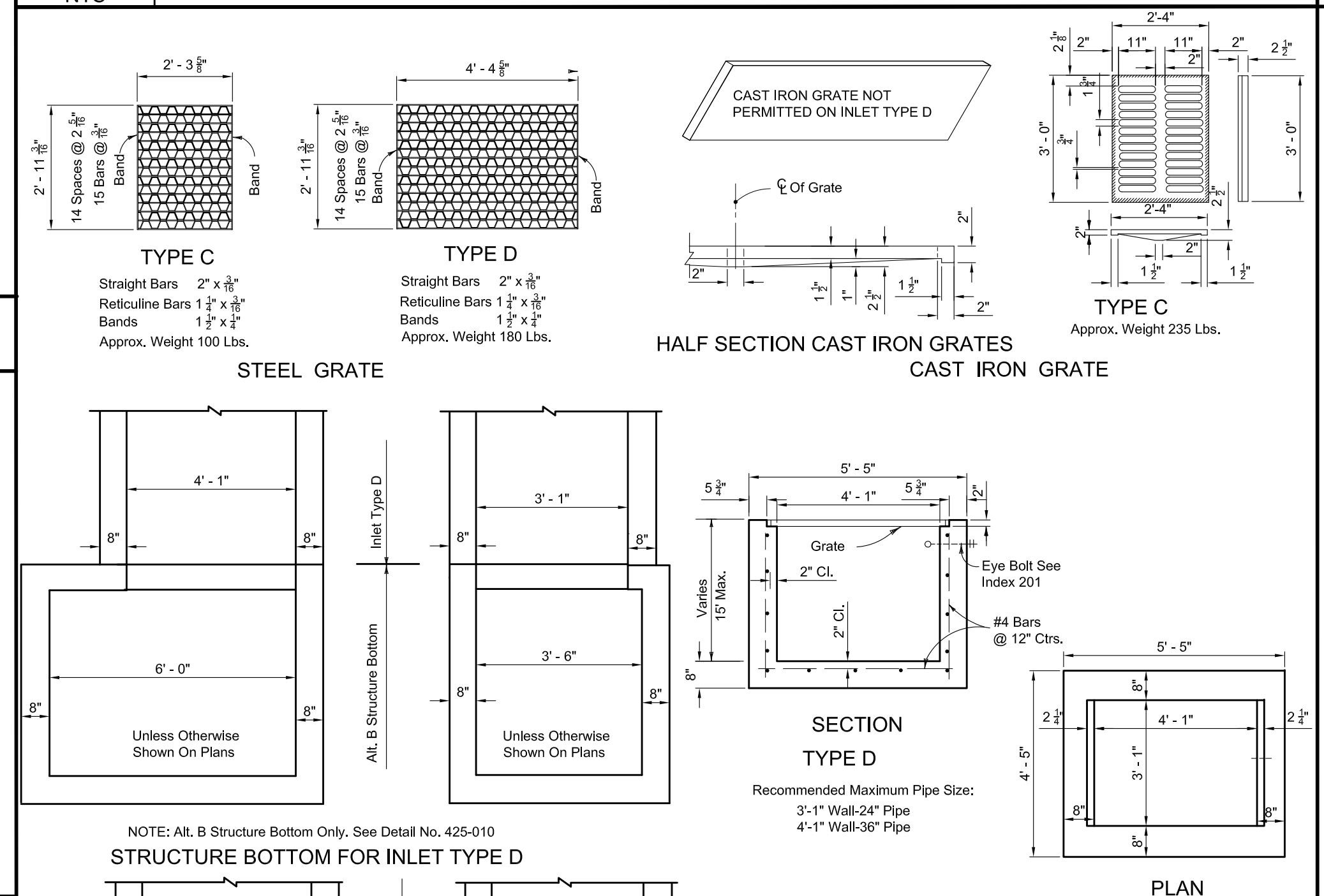
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NTS

DOWN SPOUT ROOF DRAIN DETAIL



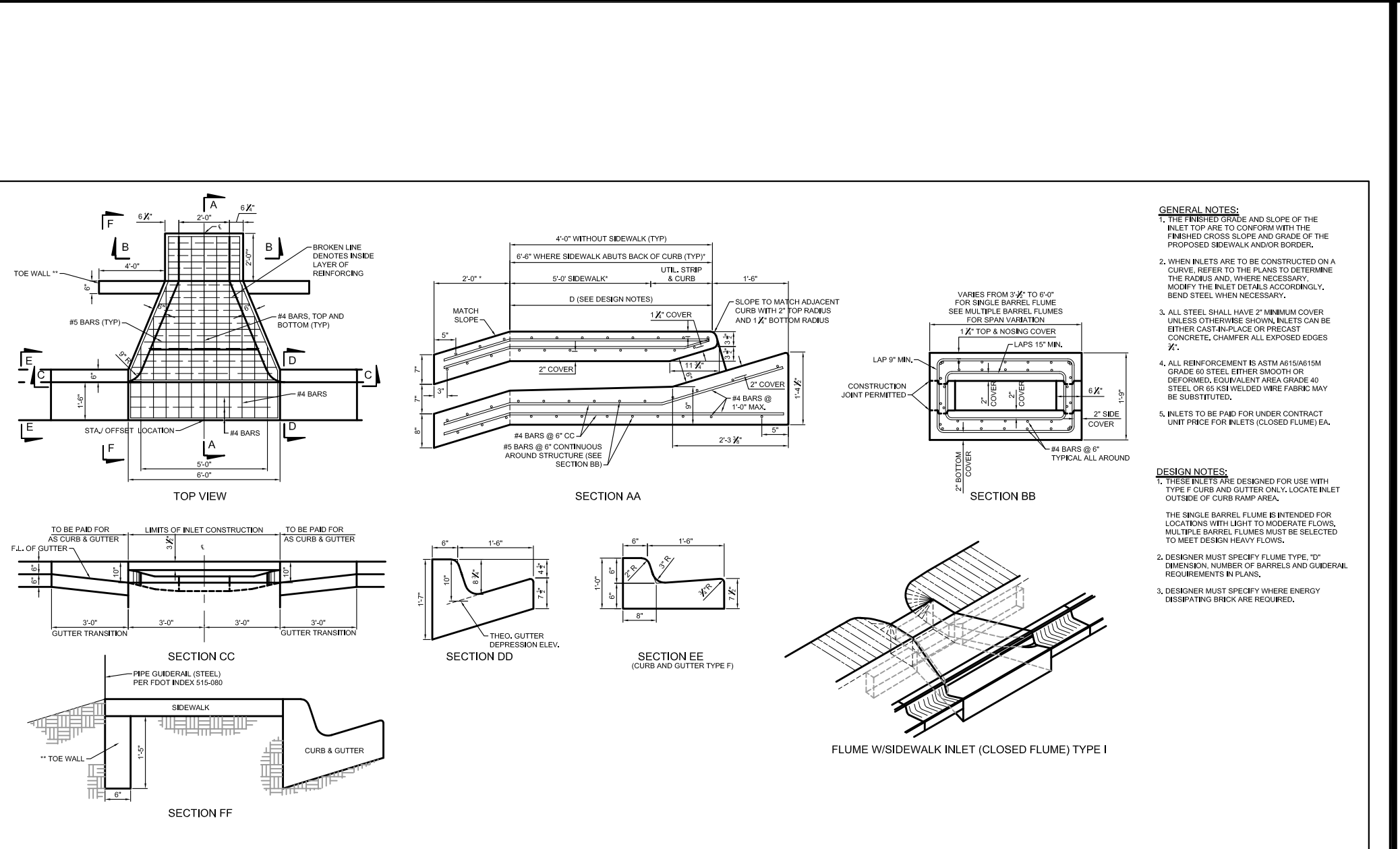
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EROSION CONTROL DETAILS



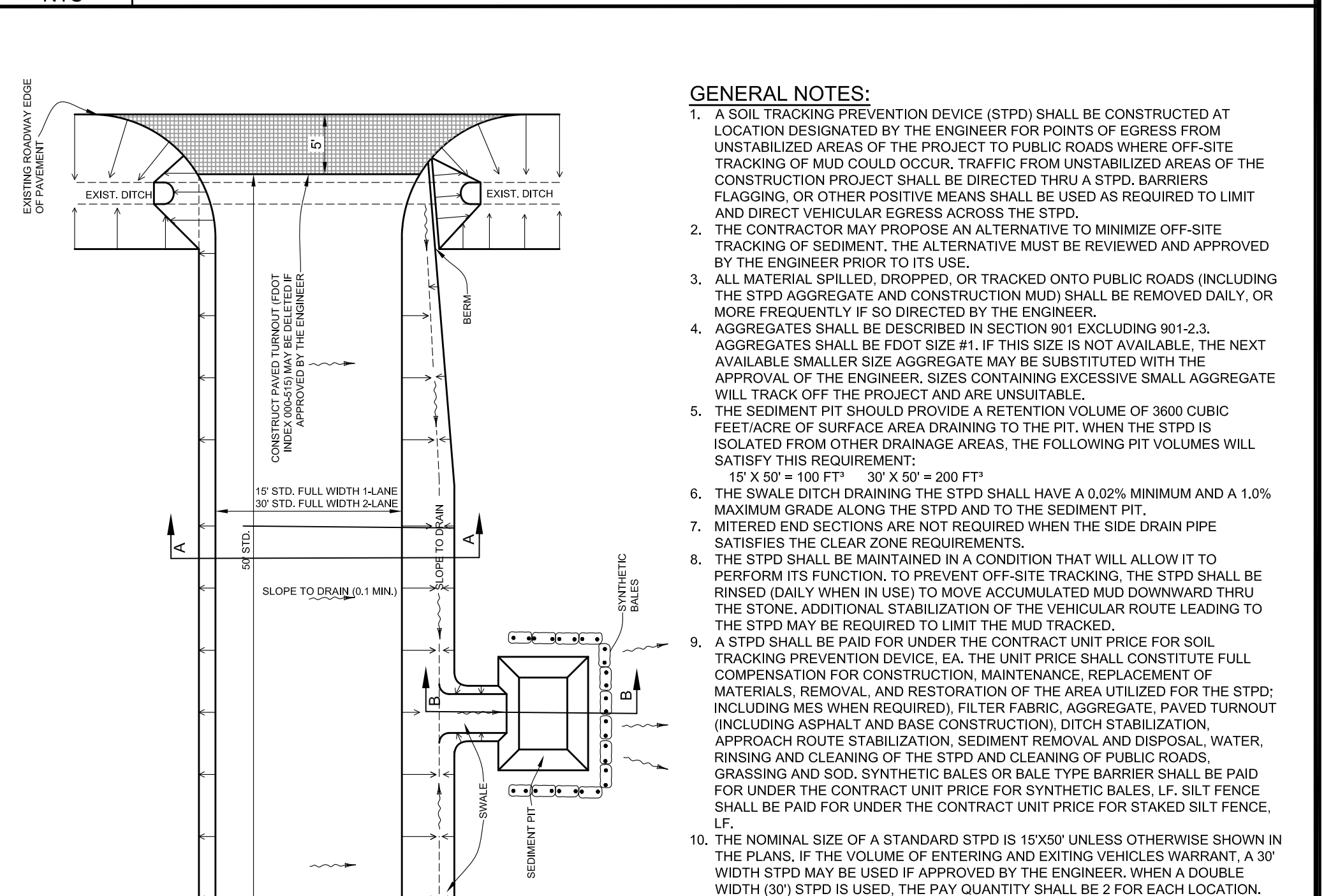
3
NTS

TYPE C AND D INLET PER FOOT INDEX 425-052



2
NTS

CLOSED FLUME DETAIL PER FOOT INDEX 425-061



1
NTS

CONSTRUCTION ENTRANCE DETAILS

CMF	10/24/22	REVISIONS	BY	DATE
SCP	05/10/21			
SCP	10/31/20			
SCP	10/31/20			
BRP	09/15/19			

THESE PLANS ARE PREPARED IN COMPLIANCE WITH
FAC 10D-6.000(3)

TANNATH DESIGN, INC.
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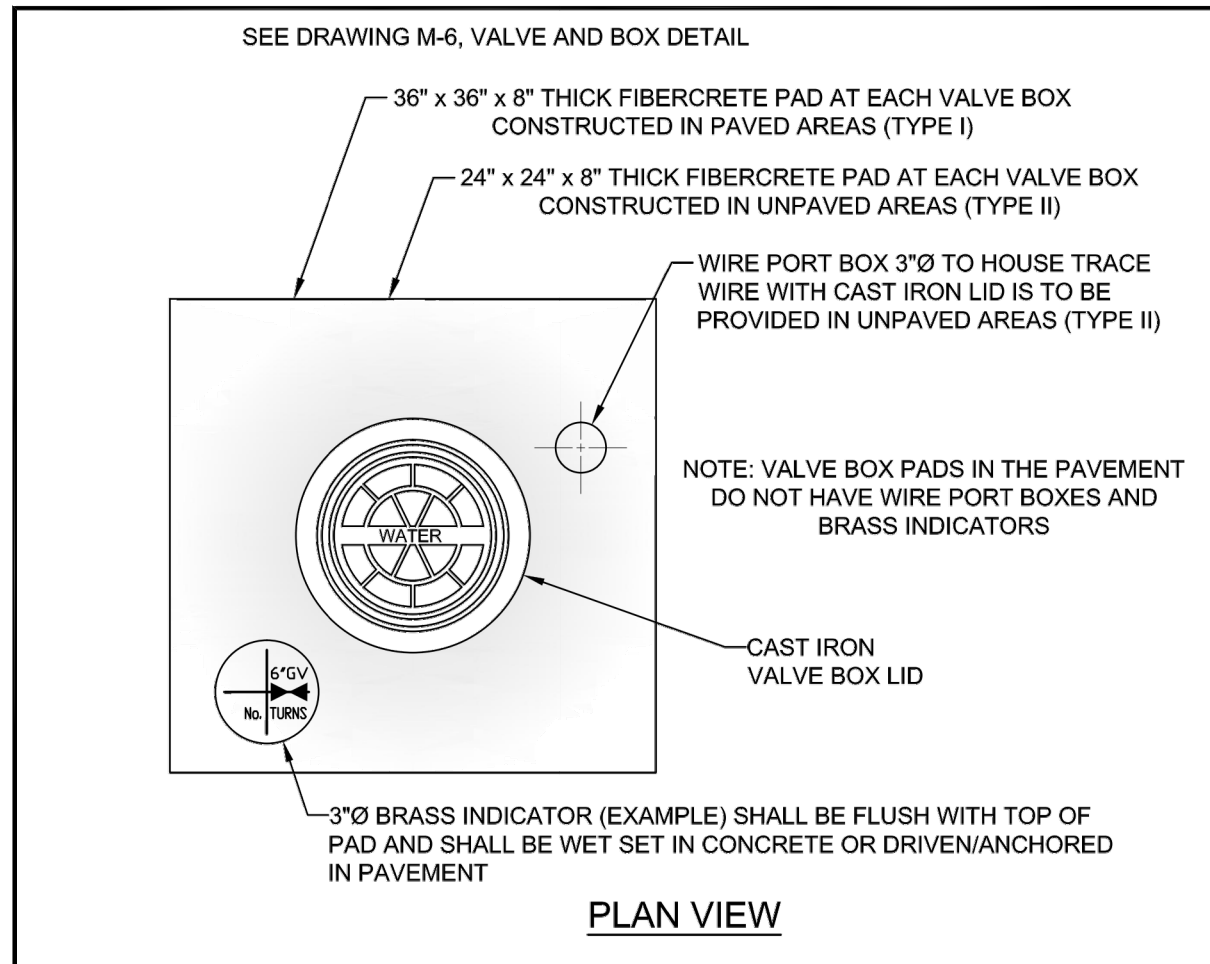
Racetrac
RACETRAC PETROLEUM, INC.
3225 CUMBERLAND BOULEVARD, SUITE 100
ATLANTA, GA 30339
(770) 431-7600

DRAINAGE DETAILS
RACETRAC #1422 - VERO BEACH

8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

DRAWN-BY: CMF
DATE: 07/01/19
SCALE: NTS
PROJECT NUMBER: 024-108
SHEET NO.: C-7.0
VERSION: 4



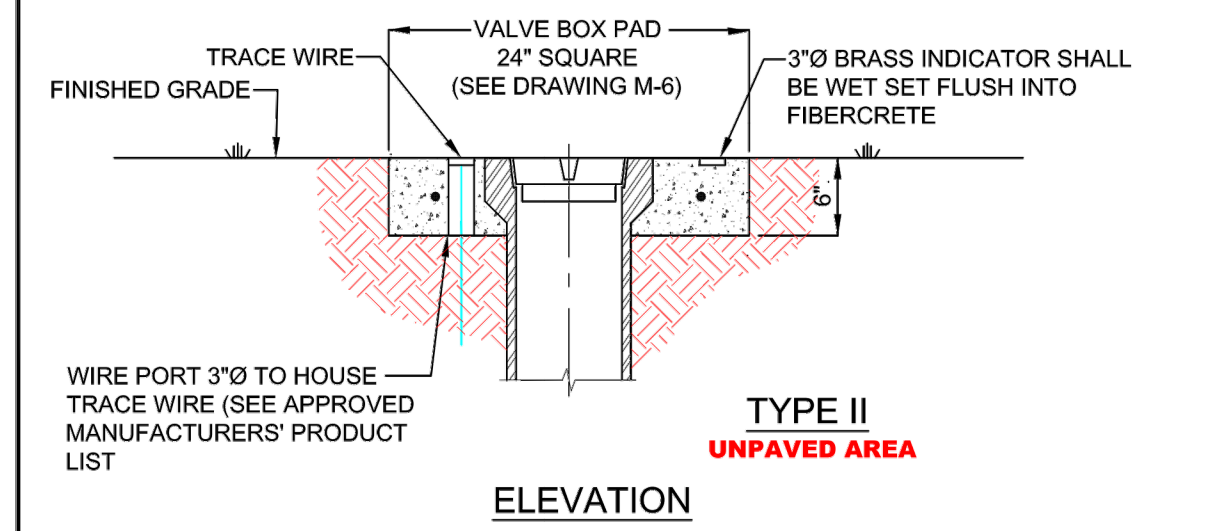
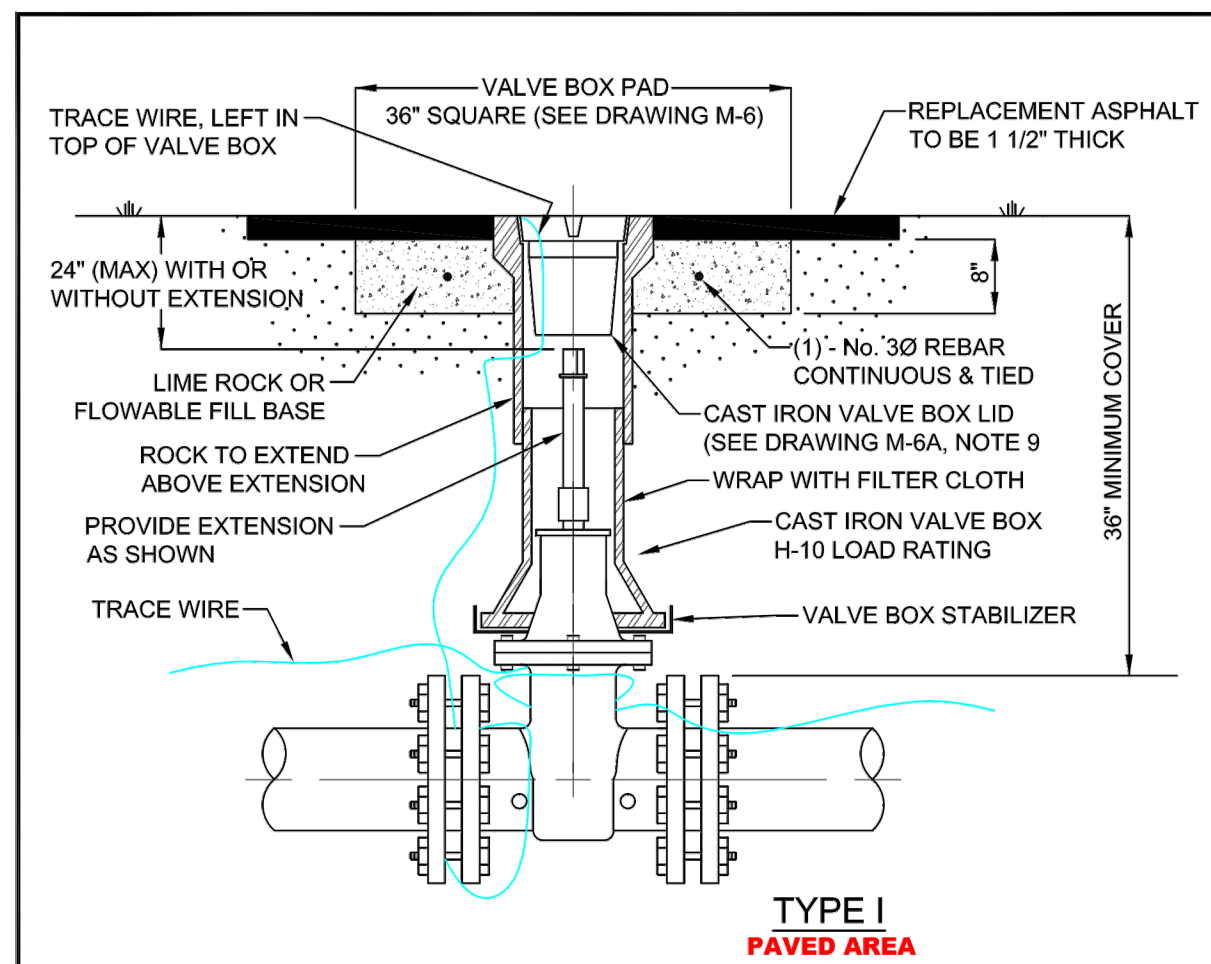


- NOTES:**
- VALVE BOX LIDS SHALL BE PAINTED: BLUE - WATER
FIRE HYDRANTS - RED
FORCE MAINS - GREEN
REUSE MAINS - PURPLE
BRINE - BROWN
 - IN UNPAVED AREAS (SEE DRAWING, No. M-6, TYPE II) A BRASS VALVE INDICATOR IS TO BE PROVIDED, WITH ENGRAVED DIAGRAM OF VALVE LOCATION AND DESCRIPTION. (SEE EXAMPLE ABOVE) INDICATOR SHALL BE FLUSH WITH VALVE PAD.
 - VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A CAST IRON, STAY-PUT COVER, MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT AND SHALL BE MARKED WITH RAISED LETTERS: "WATER", "SEWER", "BRINE", OR "REUSE WATER" AS APPLICABLE.
 - VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 - NO VALVE RINGS ARE TO BE USED.
 - IN TYPE I, PAVED AREAS, THE VALVE BOX PAD TOP ELEVATION SHALL BE EVEN WITH THE ROCK GRADE TO ALLOW BOTH LAYERS OF ASPHALT TO COVER THE VALVE BOX PAD WITH THE FINAL ASPHALT LAYER FLUSH WITH THE TOP OF THE VALVE BOX. (SEE DRAWING, No. M-6, VALVE AND BOX DETAIL)

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE BOX PAD

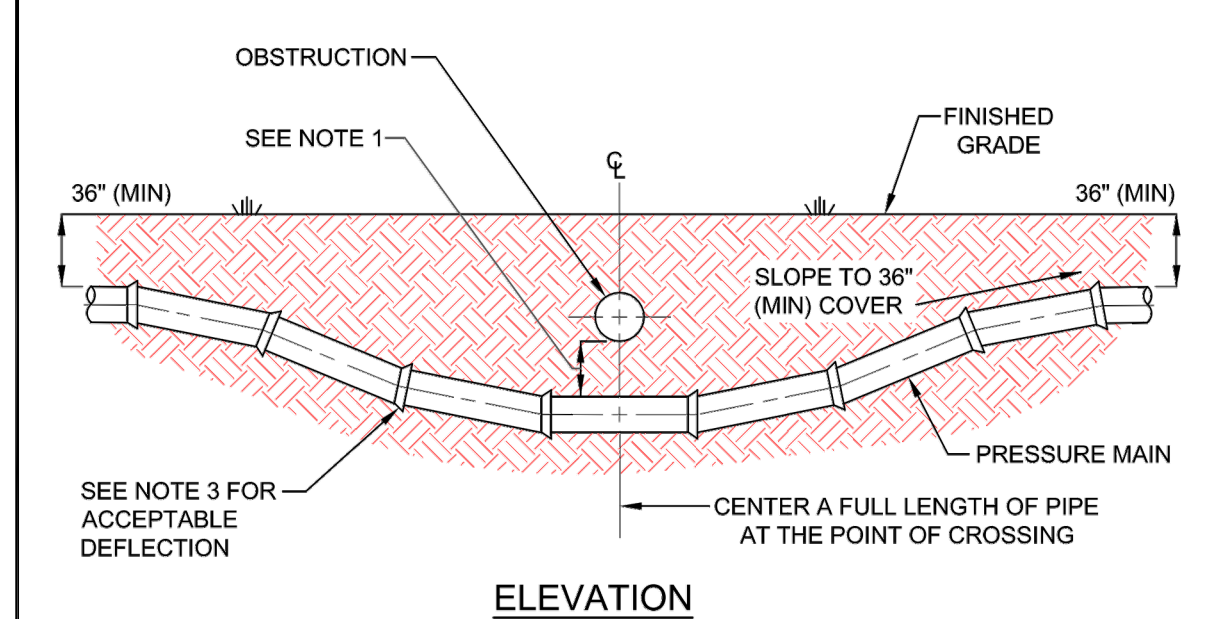
DRAWING NO. **M-7**



INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**VALVE AND BOX
DETAIL**

DRAWING NO. **M-6**

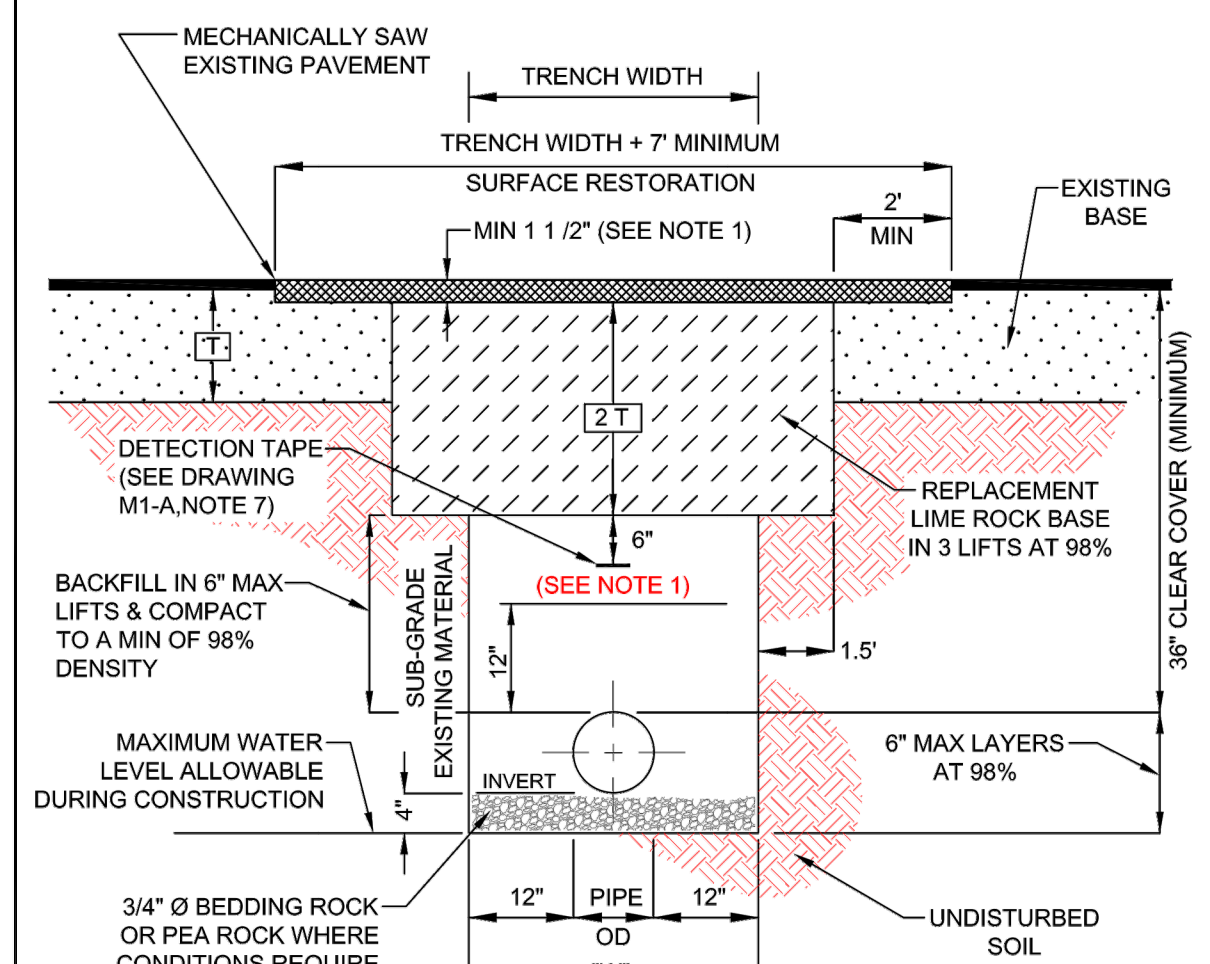


- NOTES:**
- NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY, VACUUM TYPE SANITARY SEWER, STORM SEWER, OR PRESSURE TYPE SANITARY SEWER, WASTEWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE WATER MAIN IS AT LEAST 6", AND PREFERABLY 12", ABOVE OR A MINIMUM OF 12 INCHES BELOW THE OTHER PIPELINE. IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE IF 36" MINIMUM COVER CAN BE MAINTAINED ABOVE THE WATER MAIN AND 6" OF SEPARATION BETWEEN THE WATER MAIN AND THE OTHER PIPELINE.
 - AT UTILITY CROSSINGS, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER, AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY OR PRESSURE TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER.
 - CONSTRUCT STANDARD CROSSING NOT TO EXCEED 75% OF THE MANUFACTURER'S MAXIMUM JOINT DEFLECTION.
 - OTHER METHODS OF RESTRAINT MAY BE USED AS APPROVED BY IRCUDS IN LIEU OF DEFLECTING THE PIPE AS SHOWN ABOVE.
 - TRACER WIRE SHALL BE INSTALLED ABOVE THE PIPE. (SEE DRAWING, No. M-14)
 - ALL WATER AND SEWER PIPING SHALL BE LOCATED A MINIMUM HORIZONTAL SEPARATION EQUAL TO THE DEPTH OF THE PIPE PLUS THE DIAMETER OF THE PIPE FROM ANY PERMANENT ABOVE GROUND STRUCTURES (I.E. WALLS, TREES, TRANSFORMER PADS, ETC.) AND A MINIMUM HORIZONTAL SEPARATION EQUAL TO FOUR (4) FEET FROM ANY UNDERGROUND UTILITIES (I.E. GAS MAINS, TELEPHONE LINES, CABLE LINES, IRRIGATION MAINS, ETC.).
 - IRCUDS MAY REQUIRE AIR RELEASE VALVES ON EACH SIDE OF A UTILITY CROSSING.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

UTILITY CROSSINGS

DRAWING NO. **M-4**

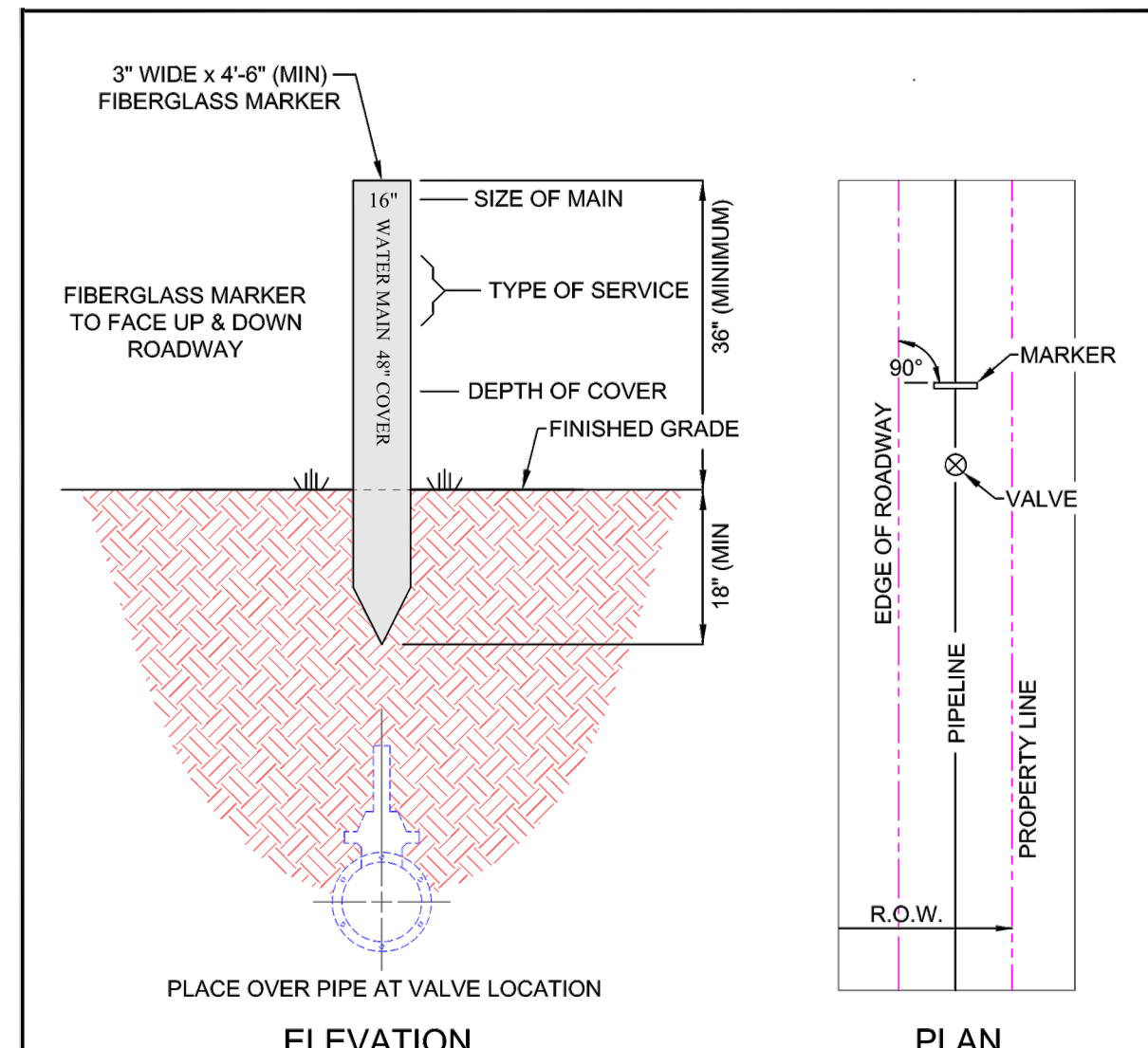


- NOTES:**
- MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 - NEW SURFACE MATERIALS SHALL BE CONSISTENT IN DEPTH WITH EXISTING MATERIALS AND SHALL HAVE LAPPED JOINTS, (1 1/2" MINIMUM THICKNESS). PAVEMENT MATERIAL TO BE SPECIFIED.
 - MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
 - EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TRENCH DETAIL (PAVED
AREAS & SHOULDERS)**

DRAWING NO. **M-2**



- NOTES:**
- MARKER TO BE PLACED PERPENDICULAR, AT A 90° ANGLE, TO ROADWAY AND DIRECTLY OVER PIPE, ADJACENT TO VALVE, AS DIRECTED BY IRCUDS.
 - MARKER TO BE USED AT ALL CANAL CROSSINGS AND AS DIRECTED BY IRCUDS.
 - MARKER TO BE PLACED ADJACENT TO WATER MAIN VALVES, FORCE MAIN VALVES RE-USE MAIN VALVES AND BRINE VALVES AS DIRECTED BY IRCUDS.
 - ALL MATERIAL TO BE PER IRCUDS APPROVED MANUFACTURERS' PRODUCT LIST.
 - MARKERS SHALL BE PAINTED: BLUE - WATER
RED - FIRE HYDRANTS
GREEN - FORCE MAINS
PURPLE - REUSE MAINS
BROWN - BRINE

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE MARKER

DRAWING NO. **M-10**

- NOTES:**
- VALVE BOXES SHALL BE CONSTRUCTED PER MANUFACTURERS' SPECIFICATION.
 - ALL VALVE BOXES SHALL BE SHAFT/SCREW TYPE AND CANNOT REST ON THE VALVE.
 - ALL VALVE BOLTS SHALL BE STAINLESS STEEL WITH BRASS NUTS.
 - VALVE MARKERS ARE TO BE INSTALLED ADJACENT TO ALL VALVES IN UNPAVED AREAS AS DIRECTED BY IRCUDS. (SEE DRAWING, No. M-10, VALVE MARKER)
 - ALL VALVES REQUIRE STATE PLANE COORDINATES.
 - TRACE WIRE IS REQUIRED. (SEE DRAWING, No. M-14, TRACE WIRE DETAILS)
 - BLUE REFLECTIVE MARKERS (RPMs) ARE TO BE LOCATED IN MID-LANE OF ROADWAY FOR ALL HYDRANT VALVES. (SEE DRAWING, No. W-1, FIRE HYDRANTS & VALVE LOCATIONS)
 - REFLECTIVE MARKERS SHALL NOT BE PLACED IN BIKE LANES.
 - VALVE BOX LID LOCATED IN PAVEMENT SHALL BE A MINIMUM 24 LBS. WITH A MINIMUM 6" LONG THROAT.
 - VALVE BOX SHALL COMPLY WITH FDOT STANDARDS AS APPLICABLE.
 - VALVE EXTENSIONS OVER 36" REQUIRE IRCUDS ENGINEERING APPROVAL.
 - VALVE SPACING ON WATER MAINS SHALL NOT EXCEED 1,000' MAXIMUM.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**VALVE AND BOX DETAIL
NOTES**

DRAWING NO. **M-6
A**

PIPE DIAMETER (INCHES)	D.I.P.				P.V.C.			
	90°	45°	22 1/2°	11 1/4°	90°	45°	22 1/2°	11 1/4°
3"	30'	15'	10'	5'	40'	20'	10'	5'
4"	35'	15'	10'	5'	55'	25'	15'	10'
6"	55'	25'	10'	5'	80'	35'	20'	10'
8"	85'	30'	15'	10'	90'	40'	20'	10'
10"	80'	35'	20'	10'	110'	50'	25'	15'
12"	95'	40'	20'	10'	130'	55'	30'	15'
16"	120'	50'	25'	15'	165'	70'	35'	20'
20"	150'	65'	30'	15'	200'	85'	40'	20'
24"	180'	70'	35'	20'	210'	90'	45'	25'
30"	190'	80'	40'	20'	250'	105'	50'	25'
36"	220'	95'	45'	25'	0	0	0	0
42"	245'	105'	50'	25'	0	0	0	0
48"	260'	120'	60'	30'	0	0	0	0

RESTRAINED LENGTHS FOR DEAD ENDS AND BRANCHES FROM TEES SHALL BE THE SAME AS FOR 90° BENDS

PIPE DIAMETER (INCHES)	RESTRAINED LENGTH IN FEET EACH SIDE FOR REDUCER									
	3"	4"	6"	8"	10"	12"	16"	20"	24"	30"
3"	0	0	0	0	0	0	0	0	0	0
4"	40'	0	0	0	0	0	0	0	0	0
6"	50'	45'	0	0	0	0	0	0	0	0
8"	75'	70'	40'	0	0	0	0	0	0	0
10"	95'	90'	70'	40'	0	0	0	0	0	0
12"	120'	115'	100'	75'	40'	0	0	0	0	0
16"	160'	155'	140'	125'	100'	70'	0	0	0	0
20"	200'	195'	185'	170'	150'	130'	75'	0	0	0
24"	180'	155'	150'	140'	135'	120'	90'	50'	0	0
30"	195'	190'	185'	180'	170'	160'	120'	105'	70'	0
36"	225'	220'	215'	210'	205'	195'	180'	150'	125'	70'
42"	245'	240'	235'	230'	225'	220'	205'	180'	155'	105'
48"	255'	250'	245'	240'	235'	230'	215'	195'	175'	125'

RESTRAINED LENGTHS FOR LARGER DIAMETER PIPES

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**RESTRAINED PIPE
LENGTHS AND SCHEDULE
NOTES**

DRAWING NO. **M-3**

- NOTES:**
- WHERE SOIL CONDITIONS CANNOT BE MAINTAINED AS SHOWN ABOVE, PROVIDE METHOD OF CONSTRUCTION TO IRCUDS FOR APPROVAL.
 - SHEETING WILL BE REQUIRED AS DETERMINED IN THE FIELD IN ACCORDANCE WITH OSHA REGULATIONS.
 - COMPACTION PERCENTAGES SHOWN REFER TO AASHTO T-180 MODIFIED PROCTOR METHOD.
 - MECHANICAL COMPACTION NOT ALLOWED BELOW THIS LEVEL OTHER THAN HAND VIBRATORY MEANS.
 - COMPACTION REPORTS REQUIRED.
 - MINIMUM TRENCH WIDTH "W" = PIPE O.D. PLUS 2'-0".
 - 2" DETECTION TAPE WITH METALLIC BACKING TO BE INSTALLED OVER MAIN 6" BELOW BOTTOM OF BASE COURSE. TAPE TO BE MARKED "CAUTION-WATER LINE BELOW", "CAUTION-FORCE MAIN BELOW", OR "CAUTION-REUSE MAIN BELOW". TRACE WIRE SHALL BE USED CONTINUOUSLY ON ALL PIPE. SEE DRAWING, No. M-14, TRACE WIRE DETAIL.
 - ALL RESTORATION IN EASEMENTS OR RIGHT-OF-WAYS OR WHEN REQUIRED BY OTHER JURISDICTIONAL AGENCIES SHALL CONFORM TO IRCUDS SPECIFICATIONS OR THE OTHER JURISDICTIONAL AGENCY SPECIFICATION, WHICHEVER IS MORE STRINGENT.
 - ALL PIPE TO BE LOCATED A MINIMUM OF 5' O.C. (TYPICAL) FROM EDGE OF PAVEMENT.
 - EXCAVATABLE FLOWABLE FILL IS ALLOWED WITH PRIOR APPROVAL OF PROPOSED MATERIAL STRENGTH BY COUNTY PUBLIC WORKS ENGINEER OR DESIGNEE.

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TRENCH DETAIL
NOTES**

DRAWING NO. **M-1
A**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE MARKER

DRAWING NO. **M-10**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**VALVE AND BOX DETAIL
NOTES**

DRAWING NO. **M-6
A**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**RESTRAINED PIPE
LENGTHS AND SCHEDULE
NOTES**

DRAWING NO. **M-3**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TRENCH DETAIL
NOTES**

DRAWING NO. **M-1
A**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

UTILITY DETAILS

RACETRAC #1422 - VERO BEACH

8990 20TH STREET
VERO BEACH, FL 32966
INDIAN RIVER COUNTY

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**VALVE AND BOX
DETAIL**

DRAWING NO. **M-6**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

UTILITY CROSSINGS

DRAWING NO. **M-4**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**TRENCH DETAIL (PAVED
AREAS & SHOULDERS)**

DRAWING NO. **M-2**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

VALVE MARKER

DRAWING NO. **M-10**

INDIAN RIVER COUNTY
DEPARTMENT OF
UTILITY SERVICES

**VALVE AND BOX
DETAIL**

DRAWING NO. **M-6**

INDIAN RIVER COUNTY
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UTILITY CROSSINGS

DRAWING NO. **M-4**

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AREAS & SHOULDERS)**

DRAWING NO. **M-2**

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UTILITY CROSSINGS

DRAWING NO. **M-4**

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**TRENCH DETAIL (PAVED
AREAS & SHOULDERS)**

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**TRENCH DETAIL (PAVED
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DRAWING NO. **M-2**

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VALVE MARKER

DRAWING NO. **M-10**

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**VALVE AND BOX
DETAIL**

DRAWING NO. **M-6**

INDIAN RIVER COUNTY
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UTILITY CROSSINGS

DRAWING NO. **M-4**

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**TRENCH DETAIL (PAVED
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VALVE MARKER

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