

WELLHEAD PROTECTION NOTE

- The entire parcel falls within the Travel Time Contour of a protected (potable) Wellhead. Contractors shall be responsible for reporting spills of potentially hazardous substances (i.e. gasoline, diesel fuel, hydraulic fluid, cleaning products, chemicals, etc.) to the appropriate State gasoline, diesel fuel, hydraulic fluid, cleaning products, chemicals, etc.) to the appropriate State (FDEP State Warning Point 1-800-320-0519) and local (ECUA-Emerald Coast Utilities Authority (850) 476-5110 and Escambia County Health Department/Environmental Health 595-6712) agencies.

POINT OF BEGINNING
THE INTERSECTION OF THE NORTH
BOUNDARY LINE OF THE SOUTHWEST QUARTER OF
SECTION 20,
TOWNSHIP 1 NORTH, RANGE 30 WEST,
ESCAMBIA COUNTY, FLORIDA

GENERAL SURVEY NOTES:

- THE BEARINGS AS SHOWN HEREON ARE REFERENCED TO THE ASSUMED BEARING OF SOUTH 19 DEGREES 22 MINUTES 00 SECONDS EAST ALONG THE WEST LINE OF THE PROPERTY AS PER THE DESCRIPTION AS FURNISHED.
- THE SURVEY DATUM AS SHOWN HEREON IS REFERENCED TO THE DESCRIPTION AS FURNISHED AND TO EXISTING FIELD MONUMENTATION.
- NO TITLE SEARCH WAS PROVIDED TO NOR PERFORMED BY NORTHWEST FLORIDA LAND SURVEYING, INC., FOR THE SUBJECT PROPERTY. THERE MAY BE DEEDS OF RECORD, UNRECORDED DEEDS, EASEMENTS, RIGHTS-OF-WAY, STATE AND/OR FEDERAL JURISDICTIONAL AREAS OR OTHER INSTRUMENTS WHICH COULD AFFECT THE SUBJECT PROPERTY.
- THE PROPERTY AS SHOWN HEREON IS LOCATED IN FLOOD ZONE "X", OUTSIDE 0.2% ANNUAL CHANCE OF FLOOD, AS DETERMINED FROM FEDERAL EMERGENCY MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP OF ESCAMBIA COUNTY, FLORIDA (UNINCORPORATED AREAS), MAP NUMBER 12033C 0290 G, REVISED SEPTEMBER 29, 2006.
- THIS SURVEY DOES NOT DETERMINE OWNERSHIP.
- THIS SURVEY MEETS THE STANDARDS OF PRACTICE AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS IN CHAPTER 5J-17.051 - 5J-17.053 FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027, FLORIDA STATUTES, TO THE BEST OF MY KNOWLEDGE AND BELIEF.
- THE MEASUREMENTS AS SHOWN HEREON WERE MADE TO UNITED STATES STANDARDS.
- THE MEASUREMENTS OF THE BUILDINGS AND/OR FOUNDATIONS SHOWN HEREON DO NOT INCLUDE CONCRETE FOOTERS OR EAVE OVERHANGS.
- FENCE LOCATIONS SHOWN HEREON MAY BE EXAGGERATED AND NOT TO SCALE FOR CLARITY PURPOSES
- FEDERAL AND STATE COPYRIGHT ACTS PROTECT THIS MAP FROM UNAUTHORIZED USE. THIS MAP IS NOT TO BE COPIED OR REPRODUCED IN WHOLE OR PART AND IS NOT TO BE USED FOR THE BENEFIT OF ANY OTHER PERSON, COMPANY OR FIRM, WITHOUT PRIOR WRITTEN CONSENT OF THE COPYRIGHT OWNER, FRED R. THOMPSON, AND IS TO BE RETURNED TO OWNER UPON REQUEST.
- THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY ISSUED ON THE SURVEY DATE WITH A RAISED SEAL TO INSURE THE ACCURACY OF THE INFORMATION AND TO FURTHER INSURE THAT NO CHANGES, ALTERATIONS OR MODIFICATIONS HAVE BEEN MADE. NO RELIANCE SHOULD BE MADE ON A DOCUMENT TRANSMITTED BY COMPUTER OR OTHER ELECTRONIC MEANS UNLESS FIRST COMPARED TO THE ORIGINAL SIGNED AND SEALED DOCUMENT.
- THIS SURVEY MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS BY COUNTY, STATE OR OTHER AGENCIES.
- ENCROACHMENTS ARE AS SHOWN.
- THE PURPOSE OF THIS SURVEY IS TO RETRACE AND MONUMENT THE DEED OF RECORD ON THE GROUND AS WELL AS LOCATE ON SITE IMPROVEMENTS, EVIDENCE OF POSSESSION, AND ENCROACHMENTS TO BE SHOWN ON THE SURVEY TO SCALE AND THEIR RELATIONSHIP TO THE BOUNDARY.
- THE ELEVATIONS AS SHOWN HEREON ARE REFERENCED TO NORTH AMERICAN VERTICAL DATUM OF 1988, FROM ESCAMBIA COUNTY GEODETIC CONTROL POINT STAMPED "ESC 4075" HAVING A PUBLISHED ELEVATION OF 109.05 FEET. BASED ON ESCAMBIA COUNTY, FLORIDA GPS NETWORK SURVEY PREFORMED BY BASKERVILLE DONOVAN, INC. DATED 10/15/97.
- UNDERGROUND UTILITIES SHOWN HEREON ARE BASED ON INFORMATION PROVIDED BY OTHERS AND THEIR LOCATION SHOULD BE CONSIDERED APPROXIMATE. CALL 811 SUNSHINE UTILITY LOCATORS 48 HOURS PRIOR TO DIGGING WITHIN THE RIGHT OF WAY.

SURVEY LEGEND:

- ~ 1/2" CAPPED IRON ROD, NUMBERED 7277 (PLACED)
- ~ 1/2" CAPPED IRON ROD, NUMBERED 2843 (FOUND)
- ~ 1" IRON PIPE, UNNUMBERED (FOUND)
- (D) ~ DEED INFORMATION
- (F) ~ FIELD INFORMATION
- R/W ~ RIGHT OF WAY
- P.C. ~ POINT OF CURVATURE
- P.O.B. ~ POINT OF BEGINNING
- O.R. ~ OFFICIAL RECORD
- P.C. ~ PAGE
- ~ BENCHMARK

- ~ WATER METER
- ~ WATER VALVE

- ~ AT&T MARKER
- ~ AT&T BOX
- ~ TRAFFIC CONTROL BOX
- ~ BURIED FIBER OPTICS MARKER
- ~ BURIED FIBER OPTICS BOX
- ~ UTILITY POLE
- ~ GUY ANCHOR
- ~ SIGN
- ~ BILL BOARD SIGN
- ~ STORM WATER INLET
- ~ MAIL BOX

LINE TABLE		
LINE	LENGTH	BEARING
L1	36.80	N48°39'47"E
L2	24.25	N11°58'37"E
L3	23.60	N36°32'34"E
L4	27.88	N37°44'17"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	DELTA-ANGLE	TANGENT	CHORD
C1 (D)	367.75'	5863.37'	3°35'37"	183.94	367.69'
C1 (F)	367.50'	5861.58'	3°35'32"	183.81	367.44'

LEGEND SPECIAL LINES:

- ~ RAILROAD TRACK
- ~ RIGHT OF WAY
- SS ~ SEWER FORCE MAIN
- ~ POTABLE WATER
- ~ OVERHEAD ELECTRICAL
- UGE ~ UNDER GROUND ELECTRICAL
- ~ NATURAL GAS
- ~ STORM WATER PIPE

BENCHMARK DATA:

- BM~1 NAIL AND DISK IN ASPHALT ROAD
ELEVATION= 134.82' (NAVD88)
- BM~2 NAIL AND DISK IN ASPHALT ROAD
ELEVATION= 131.02' (NAVD88)
- BM~3 NAIL AND DISK IN ASPHALT ROAD
ELEVATION= 129.88' (NAVD88)

INSTALL TREE BARRICADE PER SHEET C10
PRIOR TO THE START OF CONSTRUCTION.
TREE BARRICADE SHALL REMAIN UNTIL END
OF CONSTRUCTION AND REPAIRED IF DAMAGED.
DURING CONSTRUCTION.

ADJACENT SOUTH PROPERTY OWNER INFO

OWNER: SOUTHERN ALUMINUM AND STEEL INC.

OWNER ADDRESS: 3229 WELLINGTON RD
PENSACOLA, FL ORIDA 32504

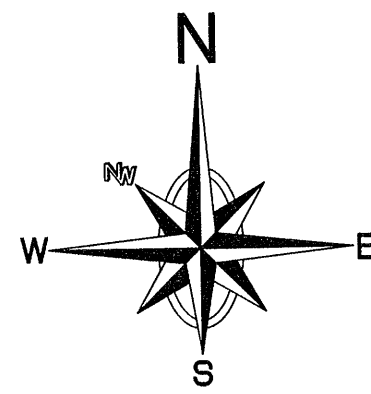
PROP REF #: 20-1N-30-3401-003-001

CURRENT ZONING: HC/LI

FLU: C

CURRENT USE: LIGHT MANUFACTURING

PROPERTY ADDRESS: 2501 S HIGHWAY 29
PENSACOLA, FLORIDA 32533



GRAPHIC SCALE



SCALE: 1" = 40'

DESCRIPTION AS FURNISHED: (OFFICIAL RECORDS BOOK: 7950, PAGE: 1868)

BEGINNING AT THE INTERSECTION OF THE NORTH BOUNDARY LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 20, T1N, R30W, WITH THE EASTERLY LINE OF THE ST. LOUIS AN SAN FRANCISCO RAILROAD RIGHT OF WAY (100' R/W) FOR THE POINT OF BEGINNING; THENCE S 19°22' E ALONG THE SAID EASTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 838.23 FEET TO THE NORTHEASTERLY CORNER OF THE LEWIS PROPERTY DESCRIBED IN THE DEED RECORDED IN DEED BOOK 491 AT PAGE 737 OF THE PUBLIC RECORDS OF ESCAMBIA COUNTY, FLORIDA; THENCE S 84°38' E ALONG THE NORTHERLY LINE OF THE SAID LEWIS PROPERTY FOR A DISTANCE OF 71.53 FEET TO THE WESTERLY RIGHT OF WAY LINE OF PENSACOLA BOULEVARD (200' R/W); THENCE N 28°01' W ALONG THE SAID WESTERLY RIGHT OF WAY LINE FOR A DISTANCE OF 511.30 FEET TO A POINT OF CURVE; THENCE ALONG THE ARC OF A CIRCULAR CURVE (RADIUS EQUALS 5,863.37 FEET, CHORD LENGTH EQUALS 367.69 FEET CHORD BEARING EQUALS N 27°14' W) FOR AN ARC DISTANCE OF 367.65 FEET TO THE SAID NORTH LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4); THENCE NORTH 88°35' WEST ALONG THE SAID NORTH LINE FOR A DISTANCE OF 32.68 FEET TO THE POINT OF BEGINNING; ALL LYING AND BEING IN THE SOUTHEAST QUARTER (SE 1/4) OF THE SOUTHWEST QUARTER (SW 1/4) OF SECTION 20, TOWNSHIP 1 NORTH, RANGE 30 WEST, ESCAMBIA COUNTY, FLORIDA.

EXISTING TREE SCHEDULE & MITIGATION CHART				
PLANT DESIGNATION	PLANT SPECIES	TREE DIA. (INCHES)	ACTION	MITIGATION REQUIREMENTS (CALIPER INCHES)
T1	LIVE OAK	20	REMOVE	OFFSITE
T2	LIVE OAK	19	REMAIN	OFFSITE
T3	LIVE OAK	24	REMAIN	0
T4	LIVE OAK	14	REMOVE	GRADING/WALL
T5	LIVE OAK	19	REMOVE	GRADING/WALL
T6	LIVE OAK	12	REMOVE	DRIVEWAY
T7	LIVE OAK	17	REMOVE	DRIVEWAY
T8	LIVE OAK	13	REMOVE	DRIVEWAY
T9	LIVE OAK	12	REMOVE	SW POND
T10	LIVE OAK	14	REMOVE	SW POND
T11	LIVE OAK	19	REMOVE	DRIVEWAY
T12	LIVE OAK	13	REMAIN	0
T13	LIVE OAK	40	REMAIN	0
T14	LIVE OAK	14	REMOVE	SW POND
T15	LIVE OAK	20	REMOVE	SW POND
T16	LIVE OAK	19	REMOVE	GRADING/WALL
T17	LIVE OAK	14	REMOVE	GRADING/WALL
T18	LIVE OAK	18	REMAIN	0
T19	LIVE OAK	12	REMAIN	0
T20	LIVE OAK	13	REMOVE	SW POND
T21	LIVE OAK	18	REMOVE	SW POND
T22	LIVE OAK	18	REMOVE	SW POND
T23	LIVE OAK	20	REMAIN	OFFSITE
T24	LIVE OAK	14	REMOVE	SW POND
T25	LIVE OAK	15	REMOVE	BUILDING
T26	LIVE OAK	16	REMOVE	DRIVEWAY
T27	LIVE OAK	15	REMOVE	DRIVEWAY
T28	LIVE OAK	15	REMOVE	DRIVEWAY
T29	LIVE OAK	18	REMOVE	PARKING LOT
T30	LIVE OAK	20	REMOVE	GRADING
T31	LIVE OAK	12	REMOVE	SW POND
T32	LIVE OAK	20	REMAIN	OFFSITE
T33	LIVE OAK	25	REMAIN	OFFSITE
T34	LIVE OAK	31	REMOVE	GRADING/WALL
T35	LIVE OAK	18	REMOVE	DRIVEWAY
TOTAL INCHES IN MITIGATION PLANTING REQUIREMENTS PER TABLE				410"
TOTAL INCHES IN CREDIT RECEIVED				0"
TOTAL INCHES IN MITIGATION TO BE PLANTED				0"


SAWCUT 180 LF ALONG WEST EDGE OF EXISTING WHITE STRIPE & REMOVE 180 LF OF EXISTING ASPHALT SHOULDER AT FULL DEPTH (NOTE: SEE SHEET C3 FOR CONSTRUCTION OF NEW ASPHALT DRIVEWAY)

LAND DISTURBANCE ACTIVITIES

- All trees shall remain onsite and any proposed land clearing or land disturbance activities, including the placement of fill/fill materials, grading, excavating, etc. shall not occur until such time as appropriate permit(s) are issued for such site work.
- All land shall remain vegetated & in its natural state at all times. All tree removal, land clearing, placement of fill materials, or other Land Disturbing Activities, etc. shall be permitted or otherwise approved by the County prior to initiation.
- Existing wetlands delineated and 25' wetland buffer shown on plan shall remain in its natural state during site development. No land disturbance shall take place in these areas.

LEGEND

- T1 ~ EXISTING TREE TO BE REMOVED
- T4 ~ EXISTING TREE
- ~ PROPOSED DEMOLITION
- ~ EXISTING SPOT ELEV.
- ~ EXISTING ELEV. CONTOUR
- ~ EXISTING WETLANDS
- ~ EXISTING BURIED FIBER OPTIC LINE
- ~ EXISTING OVERHEAD UTILITY LINES
- ~ EXISTING BURIED FIBER OPTIC LINE
- ~ EXISTING ECUA WATER LINE
- ~ EXISTING BURIED NATURAL GAS LINE
- ~ EXISTING ECUA SEWER FORCE MAIN

SHEET TITLE:		PROJECT TITLE:		ENVIRONMENTAL ENGINEERING SERVICES FIRM REGISTRATION #: RY6515 2120 MARIA CIRCLE PENSACOLA, FLORIDA 32514 850-982-8606 (OFC) 850-477-1176 (FAX) GREGORY ALLEN CAMPBELL, P.E. FL PE LICENSE #: 38572		1		ESCAMBIA COUNTY COMMENTS		GAC		05-06-22	
DATE: 03-11-22		SCALE: 1"=40'		SHEET NUMBER: C1		SHEET 2 OF 15		REVISIONS		BY		DATE	
EXISTING SITE & DEMOLITION PLAN		RONNYS CARWASH OF CANTONMENT 2429 S HIGHWAY 29 CANTONMENT, FLORIDA ESCAMBIA COUNTY		NO.									
6-2-22													

SITE PLAN NOTES:

1. NOTIFY ESCAMBIA COUNTY INSPECTOR 24 HOURS BEFORE BEGINNING EVERY PHASE OF CONSTRUCTION AT 595-3550.
2. FRONT & REAR BUILDING SETBACK LINE=15'
SIDE BUILDING SETBACK LINE=10'
BUILDING SETBACK LINES ARE SHOWN ON THE SITE PLAN.
3. ALL PAVEMENT MARKINGS & STRIPING SHALL BE THERMOPLASTIC.
NO PRE-MANUFACTURED STRIPING (TAPE) WILL BE ALLOWED.
4. DEVELOPER/CONTRACTOR SHALL OBTAIN A SEPARATE SIGN PERMIT FROM ESCAMBIA COUNTY PRIOR TO INSTALLING ANY FREE-STANDING OR WALL SIGNS.
5. LOCATIONS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION BEFORE CONSTRUCTION. FAILURE OF THE PLANS TO SHOW THE EXISTENCE OF ANY UNDERGROUND UTILITIES, STRUCTURES ETC. SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY.
6. NO EXTERIOR LIGHTING IS PROPOSED WITH THIS SITE PLAN. OWNER/DEVELOPER SHALL OBTAIN BUILDING PERMIT FOR ANY EXTERIOR LIGHTING IN THE FUTURE.
7. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
8. CONTRACTOR SHALL OBTAIN BUILDING INSPECTION DEPARTMENT PERMIT FOR ANY RETAINING WALLS HIGHER THAN 2 FEET.

OWNER/PROJECT INFORMATION

OWNER: RONNYS CARWASH OF CANTONMENT (RONNIE DOUGLAS)
OWNER ADDRESS: 14455 PERDIDO KEY DRIVE, UNIT 501
PENSACOLA, FLORIDA 32507
OWNER PHONE #: 850-450-5733
PROJECT NAME: RONNYS CARWASH OF CANTONMENT
PROJECT ADDRESS: 2429 S HIGHWAY 29
CANTONMENT, FLORIDA 32533
CURRENT ZONING: HC/LI
FLU: C
PROPERTY REFERENCE #: 20-1N-30-3401-000-001

LOCATION CRITERIA (ZONING HC/LI)

THE PROJECT MEETS DOCUMENTED COMPATIBILITY LOCATION CRITERIA FOR HC/LI ZONING IN ACCORDANCE WITH ESCAMBIA COUNTY LDC 3-2.11(e)(4) AS SHOWN IN THE SUBMITTED COMPATIBILITY STUDY FOR THE PROJECT.

PARKING SPACE REQUIREMENTS

THERE ARE NO SPECIFIC PARKING SPACE REQUIREMENTS FOR A CARWASH IN DSM PARAGRAPH 3-1.2 OF THE LAND DEVELOPMENT CODE. THE CITY OF FT. WALTON BEACH REQUIRES 1 SPACE PER EMPLOYEE. 2 EMPLOYEES WILL BE BE WORKING AT THE CARWASH WHEN OPEN.

THEREFORE 2 PARKING SPACES ARE REQUIRED FOR THE CARWASH.
PARKING SPACES PROVIDED=22 SPACES (21 REGULAR & 1 HC) O.K.

LIMITS OF CONSTRUCTION SITE PLAN AREA TABLE

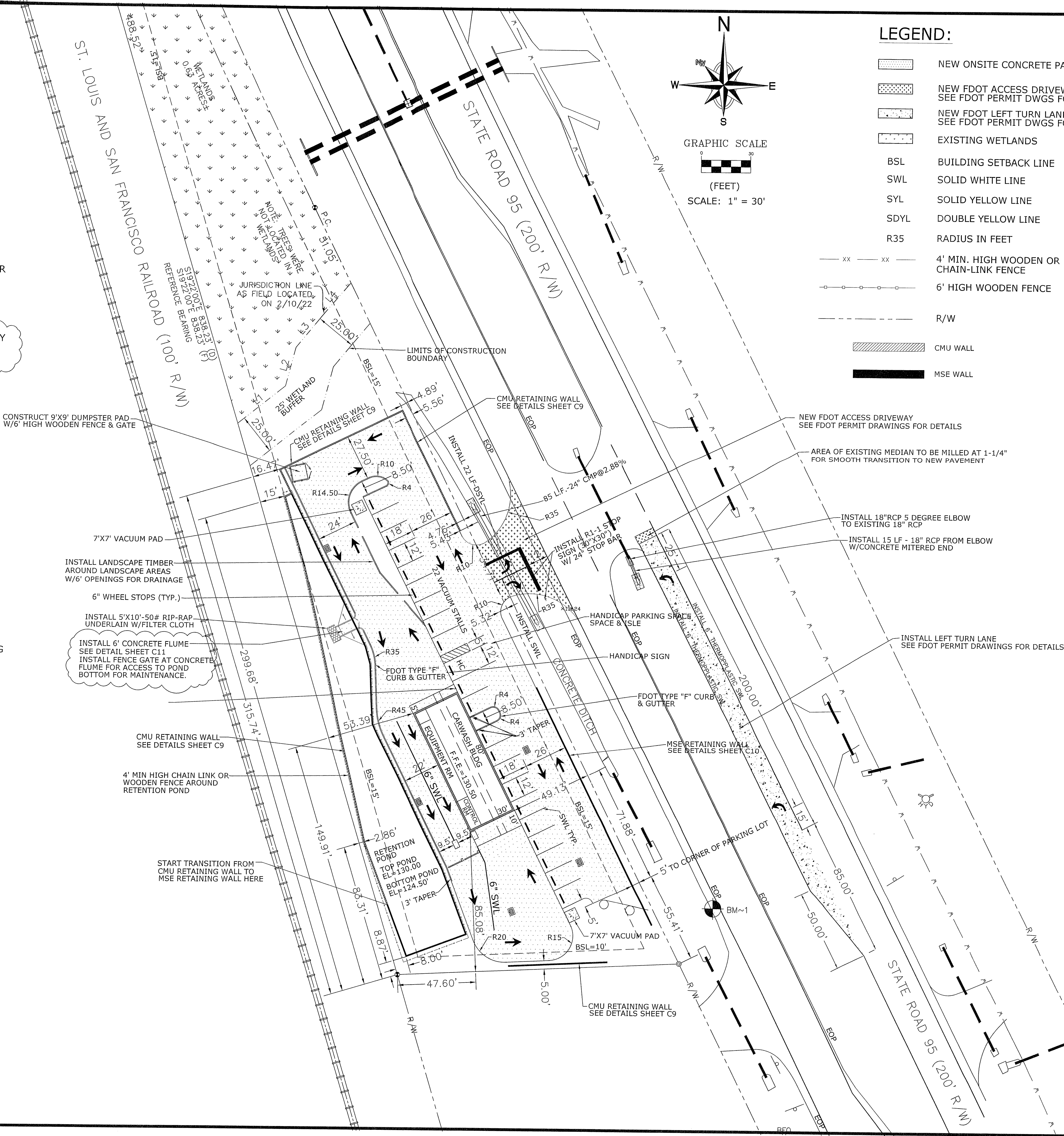
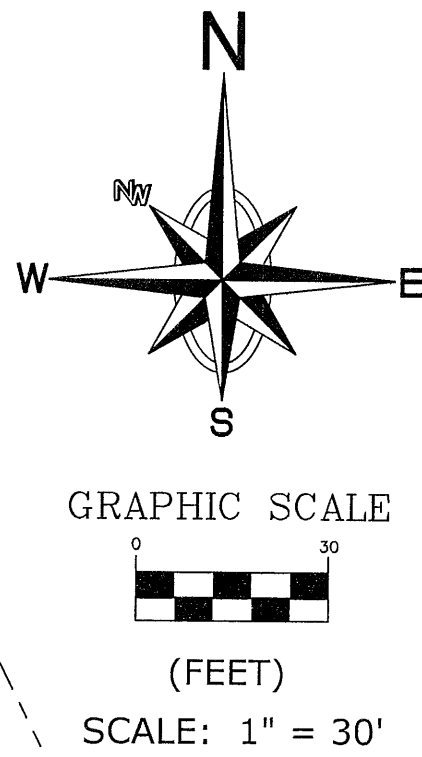
TYPE AREA	PRE-DEV	POST-DEV
BUILDING (S.F.)	0	2,400
POND (S.F.)	0	7,032
PAVEMENT (S.F.)	0	28,837
PERVIOUS AREA (S.F.)	48,824	13,585
TOTAL AREA (S.F.)	48,824	48,824

TOTAL WETLANDS AREA (NOT IN LIMITS OF CONSTRUCTION) = 27,371 S.F.
TOTAL WETLANDS BUFFER AREA (NOT IN LIMITS OF CONSTRUCTION) = 2,865 S.F.

%IMPERVIOUS AREA (LIMITS OF CONSTRUCTION) = 31,237 S.F. /48,824 S.F. X 100
%IMPERVIOUS AREA PROPOSED (LIMITS OF CONSTRUCTION) = 63.98% < 85% O.K.

LEGEND:

- NEW ONSITE CONCRETE PAVEMENT
- NEW FDOT ACCESS DRIVEWAY PAVEMENT
SEE FDOT PERMIT DWGS FOR DETAILS
- NEW FDOT LEFT TURN LANE PAVEMENT
SEE FDOT PERMIT DWGS FOR DETAILS
- EXISTING WETLANDS
- BSL BUILDING SETBACK LINE
- SWL SOLID WHITE LINE
- SYL SOLID YELLOW LINE
- SDYL DOUBLE YELLOW LINE
- R35 RADIUS IN FEET
- 4' MIN. HIGH WOODEN OR CHAIN-LINK FENCE
- 6' HIGH WOODEN FENCE
- R/W
- CMU WALL
- MSE WALL



ESCAMBIA COUNTY COMMENTS	DATE
1	05-06-22

ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: RY6515
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (OFC)
850-477-1176 (FAX)
GREGORY ALLEN CAMPBELL, P.E.
FL PE LICENSE #: 38572

PROJECT TITLE:
RONNYS CARWASH OF CANTONMENT
2429 S HIGHWAY 29
CANTONMENT, FLORIDA
ESCAMBIA COUNTY

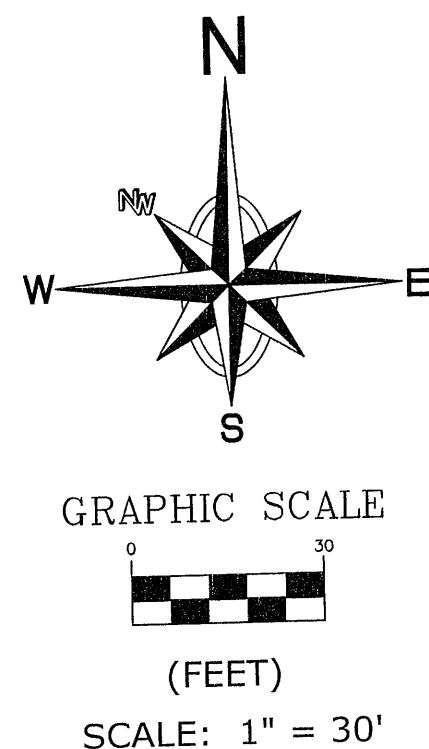
SHEET TITLE:
SITE PLAN

DATE: 03-11-22
SCALE: 1"=30'
SHEET NUMBER:
C2
SHEET 3 OF 15

[Signature]
4-2-22

LEGEND:

- NEW ONSITE CONCRETE PAVEMENT
- NEW FDOT ACCESS DRIVEWAY PAVEMENT
SEE FDOT PERMIT DWGS FOR DETAILS
- NEW FDOT LEFT TURN LANE PAVEMENT
SEE FDOT PERMIT DWGS FOR DETAILS
- MEP MATCH EXISTING PAVEMENT
- 31.80 PROPOSED SPLOT ELEV.
- 33.35 EXISTING SPOT ELEV.
- PROPOSED ELEV. CONTOUR
- EXISTING ELEV. CONTOUR
- FLOW DIRECTION
- PROPOSED 4' HIGH (MIN.) CHAIN-LINK OR WOOD FENCE
- TOW EL TOP OF WALL ELEVATION
- CMU WALL
- MSE WALL
- WETLANDS

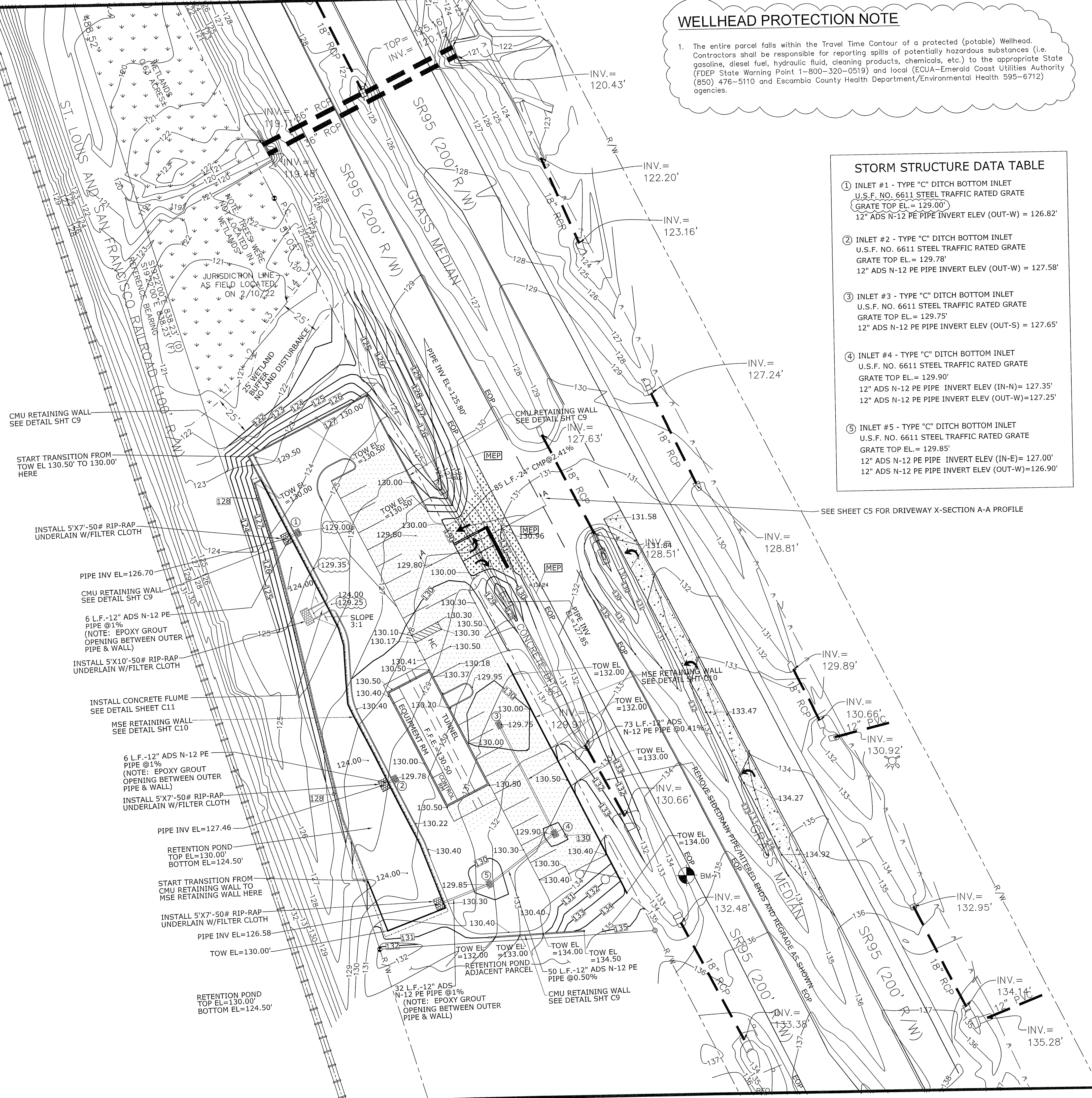
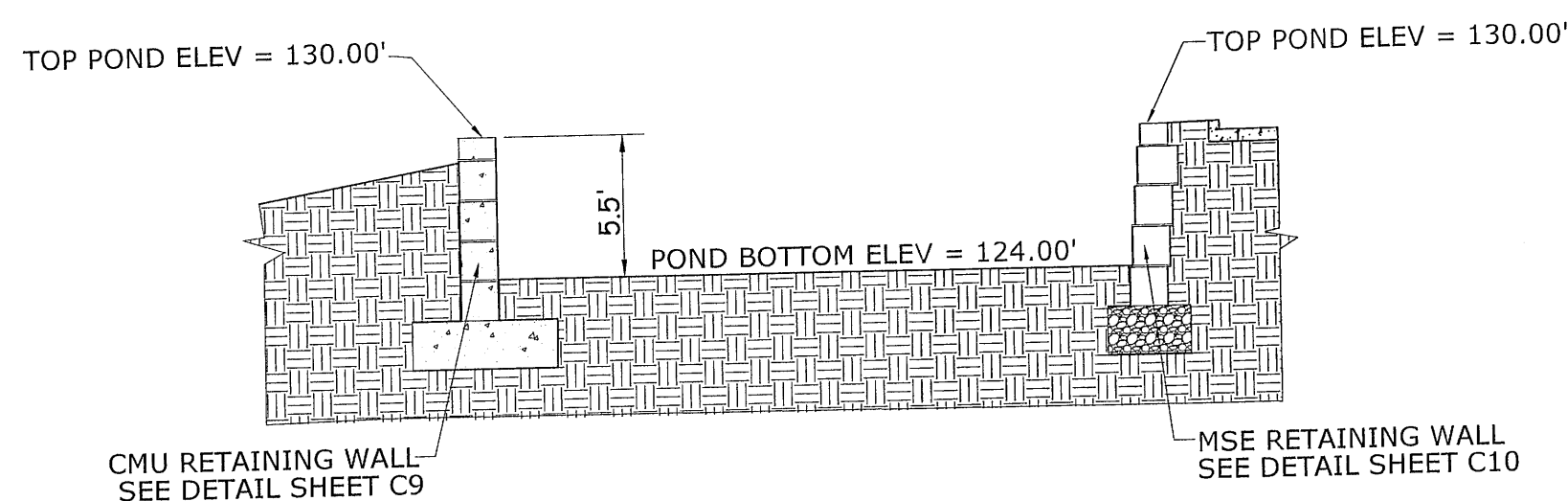
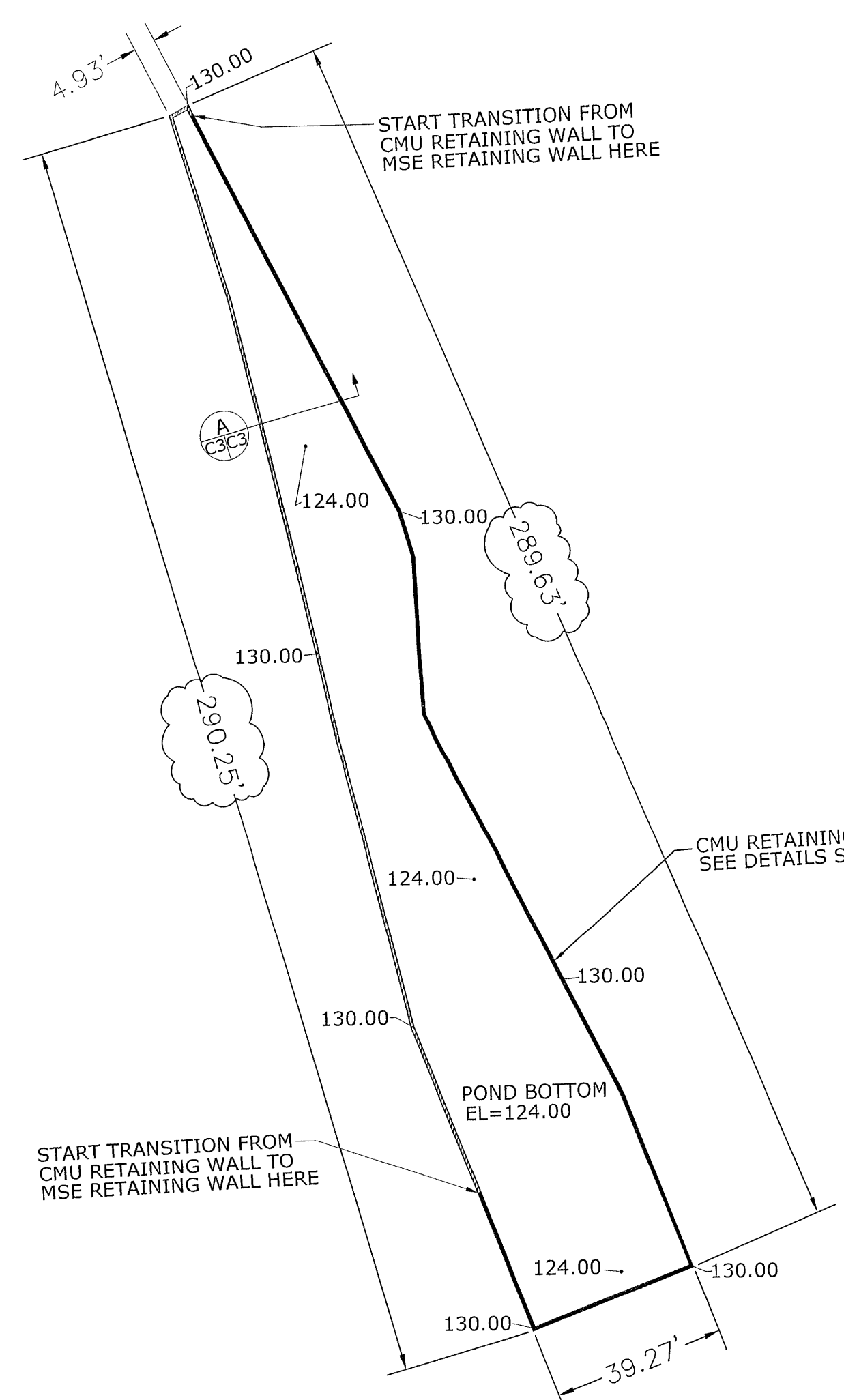


WELLHEAD PROTECTION NOTE

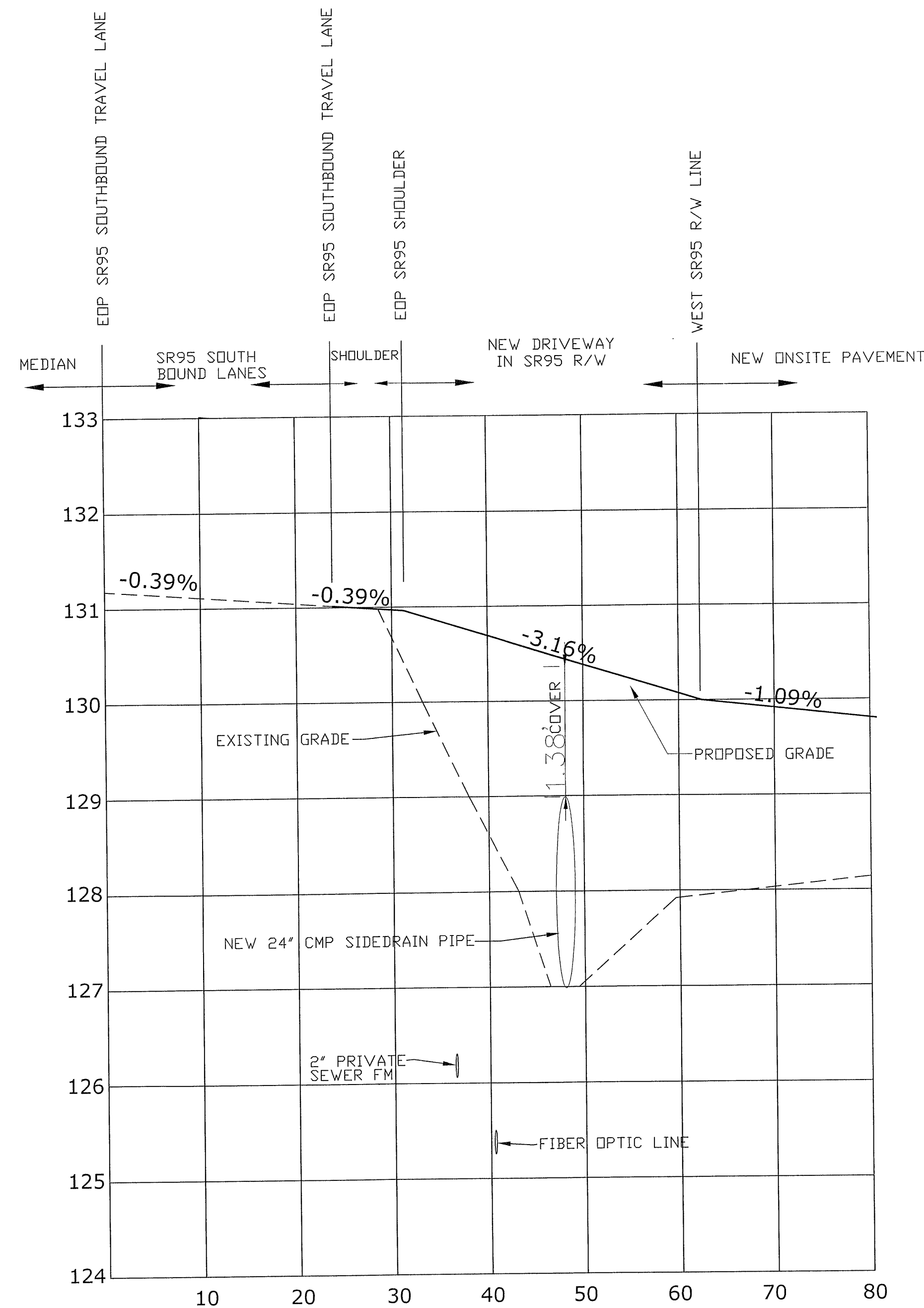
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STORM STRUCTURE DATA TABLE

- INLET #1 - TYPE "C" DITCH BOTTOM INLET
U.S.F. NO. 6611 STEEL TRAFFIC RATED GRATE
GRATE TOP EL = 129.00'
12" ADS N-12 PE PIPE INVERT ELEV (OUT-W) = 126.82'
- INLET #2 - TYPE "C" DITCH BOTTOM INLET
U.S.F. NO. 6611 STEEL TRAFFIC RATED GRATE
GRATE TOP EL = 129.78'
12" ADS N-12 PE PIPE INVERT ELEV (OUT-W) = 127.58'
- INLET #3 - TYPE "C" DITCH BOTTOM INLET
U.S.F. NO. 6611 STEEL TRAFFIC RATED GRATE
GRATE TOP EL = 129.75'
12" ADS N-12 PE PIPE INVERT ELEV (OUT-S) = 127.65'
- INLET #4 - TYPE "C" DITCH BOTTOM INLET
U.S.F. NO. 6611 STEEL TRAFFIC RATED GRATE
GRATE TOP EL = 129.90'
12" ADS N-12 PE PIPE INVERT ELEV (IN-N) = 127.35'
12" ADS N-12 PE PIPE INVERT ELEV (OUT-W) = 127.25'
- INLET #5 - TYPE "C" DITCH BOTTOM INLET
U.S.F. NO. 6611 STEEL TRAFFIC RATED GRATE
GRATE TOP EL = 129.85'
12" ADS N-12 PE PIPE INVERT ELEV (IN-E) = 127.00'
12" ADS N-12 PE PIPE INVERT ELEV (OUT-W) = 126.90'



DATE	BY	REVISIONS
05-06-22		
03-11-22		
1"=30'		
C3		
SHEET 4 OF 15		
<p>PROJECT TITLE: RONY'S CARWASH OF CANTONMENT</p> <p>SHEET TITLE: GRADING & DRAINAGE PLAN</p> <p>DATE: 03-11-22</p> <p>SCALE: 1"=30'</p> <p>SHEET NUMBER: C3</p> <p>SHEET 4 OF 15</p>		
<p>ENVIRONMENTAL ENGINEERING SERVICES</p> <p>FIRM REGISTRATION #: RY6515</p> <p>2120 MARIA CIRCLE 32514</p> <p>PENSACOLA, FLORIDA 850-982-8606 (OFC)</p> <p>850-477-1176 (FAX)</p> <p>GREGORY ALLEN CAMPBELL, P.E.</p> <p>FL PE LICENSE #: 38572</p>		
<p>ESCAMBIA COUNTY COMMENTS</p> <p>1</p>		



SECTION A-A - DRIVEWAY C/L
HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=1'

ENVIRONMENTAL ENGINEERING SERVICES FIRM REGISTRATION #: RY6515 2120 MARIA CIRCLE PENSACOLA, FLORIDA 32514 850-982-8606 (OFC) 850-477-1176 (FAX) GREGORY ALLEN CAMPBELL, P.E. FL PE LICENSE #: 38572		PROJECT TITLE: RONNYS CARWASH OF CANTONMENT 2429 S HIGHWAY 87 CANTONMENT, FLORIDA ESCAMBIA COUNTY		SHEET TITLE: SR95 DRIVEWAY CONNECTION PROFILE		DATE: 03-11-22	SCALE: 1"=20'	SHEET NUMBER: C5 SHEET 6 OF 15	 8-2-22
NO.		REVISIONS		BY		DATE			

Site Description

The proposed project is located on 2429 S Highway 29, Cantonment, Florida approximately approximately 1/8 mile north of West Roberts Road, Cantonment, Florida. The existing property is a wooded vacant lot with no structures other than billboard. The Escambia County parcel number for the project is 30-IN-30-3401-000-001. Project name is Ronnys Carwash of Cantonment.

The property is 1.81 acres. The existing stormwater runoff of lot is in a north to northwest direction. The northern portion of the lot has 0.63 acres of wetlands with a 0.066 acre wetland buffer (i.e. 25' width from wetland delineation line). The southern 112 AC portion of the lot (South from the limits of construction line or wetland buffer line) will be developed as shown on Sheet C8. The latitude and longitude of the property is 30°33' 53.19"N and 87°17' 19.09"W, respectively.

The stormwater runoff from the property within the limits of construction flows in a north-northwest direction into an offsite swale (adjacent west railroad) that then flows north and eventually into the wetlands on the northern portion of the property. The south adjacent property is developed and has a retention pond along its northern boundary preventing offsite drainage to the carwash property. The east adjacent property is State Road 95. A swale on the west right-of-way and cross drain piping underneath the roadway conveys stormwater runoff to the wetland area on the northern portion of the carwash property. The west adjacent property consists of railroad tracks. A swale located on the east side of the railroad tracks conveys stormwater runoff north and then eventually to the wetlands area of the northern portion of the carwash property. It should be noted that there is no offsite stormwater runoff to the limits of construction area.

The proposed improvements include the construction of a one-story, 2,400 s.f. automated carwash building and 22 concrete vacuum stalls and driveways. The stormwater management system for the project consists of a retention pond along the west property line. Runoff is conveyed to the ponds via a inlets and piping and concrete flume.

A soil boring was installed at the retention pond area to a depth of 15' below ground surface (+/- elev=129.00') on May 26, 2021 by Geacon Engineering & Testing, Inc.. The groundwater table was encountered at 8 feet below ground surface (elev=121.00') The average seasonal high groundwater was determined to be 7 feet below ground surface (elev=122.00'). The soil discovered in the boring was tan to red, silty sand. A permeability test of the orange silty sand from 2 to 8 foot depth determined a vertical saturated rate of 1.28 inches/hour.

Erosion and Sedimentation Controls

Erosion and sedimentation from the construction site shall be controlled at all times using Best Management Practices(BPMs) Perimeter controls shall be installed prior to clearing activities or any construction activity that disturbs soils. Installation of those controls may be staged to correspond with the clearing and construction schedule. Immediate after clearing activities appropriate controls shall be installed to limit and minimize the velocity of stormwater runoff over unprotected soils. Temporary BMPs shall be used as necessary inside the perimeter controls as the construction progresses. Perimeter controls shall be actively maintained until final stabilization of those portions of the site uphll of the perimeter controls. Temporary controls shall be removed when stabilization is achieved or when necessary for the next stage of construction. Controls shall be consistent with the performance standards for erosion and sedimentation control as set forth in Section 62-40.432 F.A.C.

Stabilization and Structural Practices

Stabilization practices may include, but not limited to, temporary seeding, mulching, geotextiles, permanent sod and preservation of existing vegetation. Preservation of the existing vegetation should always be the first choice BMP. Where disturbed soils are to remain for extended periods, temporary seeding should be considered prior to final sod stabilization. A record shall be maintained of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site and when stabilization measures are initiated. Stabilization measures shall be initiated as soon as practicable, but in no case more than 14 days; in those areas of the site where construction activities have temporarily or permanently ceased.

Structural practices shall divert flows from exposed soils, store flows, retain sediment on-site, or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include, but not limited to, silt fence, earth dikes, diversion swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems and temporary or permanent sediment basins.

Stormwater Management

A single row of silt fence as shown on sheet C8 shall be installed around the construction site prior to land disturbance activities to prevent sediment from leaving the site.

After clearing activities, silt fences and hay bales shall be installed, as necessary, uphll of the perimeter controls to reduce runoff velocities and the potential for excessive erosion. Prior to any major grading activity, the stormwater retention basins shall be constructed for utilization as a sediment basin. Runoff from uphll areas shall be directed into the sediment basins, where feasible by diversion swales.

These swales may require temporary seeding and check dams to minimize velocities and avoid excessive erosion. Rip-rap or similar velocity control is to be used, as necessary, at the outfalls from the stormwater management system for velocity dissipation prior to discharge off-site. Silt fences, and haybales if necessary, shall be installed across the outfalls until final stabilization is achieved. Erosion control facilities shall actively maintained throughout the course of construction and shall remain until final stabilization is achieved and acceptance by the owner.

Controls for Other Potential Pollutants

A materials management area shall be designated on-site for protected storage of chemicals, solvents, fertilizers and other potentially toxic materials. Storage areas can become a major source of risk due to possible mishandling of materials and accidental spills. An inventory should be compiled and maintained of the storage area and the site. Special care should be taken to identify any materials that have the potential to come into contact with stormwater.

Petroleum products such as oil gasoline, lubricants and asphaltic substances should be handled carefully to minimize their exposure to stormwater. These management practices should be used to reduce the risks of using petroleum products:

- Have equipment available to contain and clean up petroleum spills in fuel storage areas or on board maintenance and fueling vehicles.
- Where possible, store petroleum products and fuel vehicles in covered areas and construct dikes to contain any spills.
- Contain and clean up petroleum spills immediately.
- Perform preventative maintenance for on-site equipment to prevent leakage.
- Apply asphaltic substances properly according to the manufacturer's instructions.

Hazardous products including, but not limited to, paints, acids for cleaning masonry surfaces, cleaning solvents, chemical additives used for soil stabilization, and concrete curing compounds should be properly handled. These practices will help avoid pollution of stormwater by these materials:

- Keep equipment to contain and clean up spills of hazardous materials in the areas where the materials are stored.
- Contain and clean up spills immediately after they occur.
- Keep materials in a dry, covered area.
- Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.

Pesticides include insecticides, rodenticides, and herbicides that are commonly used on construction sites. These management practices will reduce the amounts of pesticides that could contact stormwater:

- Handle pesticides as infrequently as possible.
- Store materials in the original manufacturer's containers whenever possible, because special handling instructions usually are printed on the containers.
- Observe all applicable federal, state and local regulations when using, handling, or disposing of pesticides.
- Store pesticides in a dry, covered area.
- Provide curbs or dikes to contain spills.
- Have measures on site to contain and clean up spills.
- Strictly follow recommended application rates and methods.

Fertilizer and detergents usually contain nutrients that can be a major source of pollution in stormwater. These practices should be used to reduce the risks of nutrient pollution:

- Limit the application of fertilizers to the minimum area and the minimum recommended amounts.
- Reduce exposure of nutrients to stormwater runoff by working the fertilizer into the soil to a depth of 4 to 6 inches.
- Apply fertilizer more frequently, but at lower application rates.
- Limit hydroseeding in which lime and fertilizers are applied to the ground surface in one application.
- Implement good erosion and sediment control to help reduce the amount of fertilizer lost as a result of erosion.
- Limit the use of detergents on the site. Wash water containing detergents should not be discharged to the stormwater management system.
- Apply fertilizer and use detergents only in the recommended manner and amounts.

Proper management and disposal of building materials and other construction site wastes are an essential part of pollution prevention. Construction wastes include surplus or refuse building materials as well as hazardous wastes. Management practices for these wastes include trash disposal, recycling, material handling, and spill prevention and clean up. These practices should provide for proper disposal of construction wastes:

- Designate a waste disposal area on the site.
- Provide an adequate number of containers with lids or covers that can be placed over the container prior to rainfall.
- Locate containers in covered areas, where possible.
- Arrange for scheduled waste pick up. Adjust waste collection schedule as necessary to prevent overflow of the containers.
- Ensure that construction waste is collected, removed, and disposed of only at authorized disposal areas in compliance with applicable State and/or local waste disposal regulations.

Offsite vehicle tracking of sediments and the geration of dust shall be minimized. Existing onsite access driveway shall be utilized to reduce off-site until new access driveway is constructed. Off-site sediment removal should be conducted at a frequency necessary to minimize impacts. Vehicle wash area should be considered if off-site tracking becomes excessive.

The construction site must have temporary sanitary sewer facilities for on-site personnel. Portable facilities may be utilized throughout the site. Licensed domestic waste haulers must be contracted to regularly remove the sanitary wastes and to maintain the facilities in good working order. The temporary construction trailer may have sanitary sewer facilities with a holding tank. A licensed domestic waste hauler shall also service this facility. An on-site septic system for the construction trailer is not allowed. Temporary sanitary sewer facilities shall be permitted by the local building department in accordance with applicable State and local regulations.

Maintenance and Inspection Controls

Controls of pollutants shall be maintained throughout construction period and until stabilization is achieved. Qualified personnel shall inspect all points of discharge and all disturbed areas of the construction site that have not been finally stabilized areas used for storage of materials that are exposed to precipitation, structural controls, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of every storm event that produces at least 0.50 inches of rainfall determined by onsite rain gage. When the site has been finally stabilized, such inspection shall be conducted at least once every month until a Notice of Termination has been submitted. A notice of termination form is shown on this sheet. Contractor shall use the inspection form on this sheet to document the required inspections and shall keep the inspection form onsite for regulator review if required.

- Stabilization Measures - Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of or the potential for, pollutants leaving the site. The inspection should reveal whether the area was stabilized correctly, whether there has been damage to the area since it was stabilized, and what should be done to correct any problems.
- Structural Controls - Silt fences, hay bales and other erosion control measures shall be inspected regularly for proper positioning, anchoring, and effectiveness in trapping sediments. The inspection should reveal whether the control was installed correctly, whether there has been damage to the control since installation, and what should be done to correct any problems. Sediment should be removed from the uphll side of the silt fence and the fence should be reconstructed as necessary. Hay bales shall be added or replaced as necessary to provide effective control.
- Discharge Points - Discharge points shall be inspected to determine whether erosion control measures are effective in preventing significant amounts of pollutants from leaving the site. Silt fences and hay bales shall be maintained or replaced as necessary. The inspection should reveal whether the on-site BMPs are effective, and what should be done to increase the effectiveness.
- Construction Entrances - Locations where vehicles enter or exit the site shall be inspected for evidence of off-site sediment tracking. The inspection should reveal whether installation of a construction entrance is warranted, if warranted a construction entrance shall be installed per specifications on Sheet C8.
- Areas Used for Storage of exposed Materials - These are locations where construction materials (including excavated soils) are stored. The inspection should reveal the potential for excessive erosion and sedimentation, and what actions should be implemented to reduce the risks of pollution.

Contractor Certification

Based on the result of the inspection, all maintenance operations needed to assure proper function of all controls, BMPs, practices or measure identified in this plan shall be done in a timely manner, but in no case later than 7 calendar days following the inspection

A Report summarizing the scope of each inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations related to the implementation of the stormwater pollution prevention plan, and modifications to the stormwater pollution prevention plan shall be prepared and retained as part of the stormwater pollution prevention plan for at least three years from the date that the site is finally stabilized. Such report shall identify any incidence of non-compliance.

This Stormwater Pollution Prevention Plan must clearly identify, for each measure identified within the Stormwater Pollution Prevention Plan, the contractor(s) or subcontractor(s) that will implement each measure. All contractor(s) and subcontractor(s) identified in the Stormwater Pollution Prevention Plan must sign the following certification:

"I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder."

Name	Title	Company Name, Address & Phone Number	Date

Contractor Requirements

The contractor must have technical expertise in erosion prevention and sediment control. The contractor must at all time maintain erosion control methods that prevent any violation of the NPDES program.

Faulty Installation and/or Poor Maintenance

Most noncompliance occurs because measures were not installed correctly or maintained properly, or both. Determining the reason why the measures are failing requires technical knowledge about the device and how to construct them properly. Contractors failure to control erosion, sedimentation or turbidity both onsite and offsite is not acceptable. Failure to do so may result in possible fines and/or termination from the site without payment for construction progress.

Compliance

Remember that the goal of the program is to prevent accelerated erosion and off-site sedimentation. As the contractor, you are the first person to determine if the performance standards and intent of the rule are being met. You are the key person in ensuring that the construction site is evaluated fairly and consistently and that you keep the site in compliance.

The erosion and sediment control rules are performance oriented. That is, the measures used at a construction site must be effective in controlling erosion and preventing off-site sedimentation for the site to be in compliance. Following an approved plan and installing the control measures may not be enough for a site to be in compliance with the rules. If erosion and off-site sedimentation occur, the contractor will be responsible for installing additional measures to correct any problem associated with compliance of the NPDES permit or any other permit required for the site construction. The contractor will also be completely responsible for any fines levied by any governing agency on the project during construction.

The rules are also flexible, allowing the contractor to decide the most economical and effective means of erosion control. This encourages the use of innovative techniques and specifically designed erosion control systems. The contractor is the key individual in making this kind of performance based rule work because the contractor is the first person to recognize performance failures and remedy the problems.

The contractor's job is to:

- Determine that an erosion and sediment control plan for the site has been approved.
- Determine that all specified practices have been installed and are being maintained according to the plan.
- Determine that both on-site and off-site sedimentation, erosion or turbidity is being prevented. If the contractor finds deficiencies, appropriate action must be taken to attain compliance.

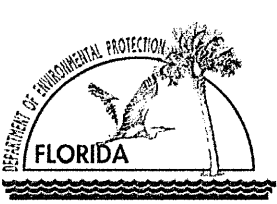
Control of non-stormwater discharges

It is expected that the following non-stormwater discharges may occur from the site during construction period: water from water line flushing, pavement wash water (where no spills or leaks of toxic or hazardous materials have occurred), and uncontaminated groundwater (from dewatering excavation). If said discharges do occur, they will be directed to the temporary sediment basin prior to discharge. Turbid water from the stormwater pond shall not be pumped directly into either the receiving waters. Any pumped water from the stormwater pond shall be treated so as to not allow a discharge of polluted stormwater. Treatment can include silt fences, settling ponds, the proper use of flocculating agents or other appropriate means.

Responsible Authority

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Project Name and location information:	Project Contact & Responsible Authority Information
RONNYS CARWASH OF CANTONMENT 2429 S HIGHWAY 29 CANTONMENT, FLORIDA	RONNIE DOUGLAS (RONNYS CARWASH) 14455 PERDIDO KEY DR, UNIT 501 PENSACOLA, FLORIDA 32507 850-450-5733
Signature (Operator and/or Responsible Authority)	Date



**NATIONAL POLLUTANT DISCHARGE
ELIMINATION SYSTEM (NPDES) STORMWATER
NOTICE OF TERMINATION
(RULE 62-621.300(6), F.A.C.)**

You must use this form to terminate coverage under the Generic Permit for Stormwater Discharge from Large and Small Construction Activities provided in subsection 62-621.300(4), F.A.C., the Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity provided in subsection 62-621.300(5), F.A.C. as well as the conditional exclusion for "no exposure" of industrial activities and materials to stormwater provided in paragraph 62-620.100(2)(o), F.A.C.

All information provided on this form shall be typed or printed in ink.

I. TERMINATION INFORMATION:

A. Facility ID/Project Number:		
B. Reason for Termination: <input checked="" type="checkbox"/> Check all that apply.		
<input type="checkbox"/>	No longer operator of the facility/project.	
<input type="checkbox"/>	Final stabilization criteria is met and all stormwater discharges associated with construction activity including dewatering operations have ceased (for construction activity only).	
<input type="checkbox"/>	All stormwater discharges associated with industrial activity have ceased (for industrial activity only).	
<input type="checkbox"/>	No longer meet the condition of "no exposure" (for industrial activity only).	

II. OPERATOR INFORMATION:

A. Operator Name:		
B. Address:		
C. City:	D. State:	E. Zip Code:
F. Responsible Authority:		G. Responsible Authority's Phone No.:
H. Responsible Authority's E-mail Address:		I. Responsible Authority's Fax No.:

III. FACILITY/PROJECT INFORMATION:

A. Name:		
B. Address/Location:		
C. City:	D. State:	E. Zip Code:
F. County:		

DEP Form 62-621.300(6)
Effective Date: 02/2015

Page 1 of 4

Stormwater Pollution Prevention Plan Inspection Report Form

Inspections must occur at least once a week and within 24 hours of the end of a storm event that is 0.50 inches or greater.

Project Name: FDEP NPDES Stormwater Identification Number: FLR10

Location	Rain data	Type of control (see below)	Date installed / modified	Current Condition (see below)	Corrective Action / Other Remarks

Condition Code:
G = Good M = Marginal, needs maintenance or replacement soon P = Poor, needs immediate maintenance or replacement
C = Needs to be cleaned O = Other

Control Type Codes			
1. Silt Fence	10. Storm drain inlet protection	19. Reinforced soil retaining system	28. Tree protection
2. Earth dikes	11. Vegetative buffer strip	20. Gabion	29. Detention pond
3. Structural diversion	12. Vegetative preservation area	21. Sediment Basin	30. Retention pond
4. Swale	13. Retention Pond	22. Temporary seed / sod	31. Waste disposal / housekeeping
5. Sediment Trap	14. Construction entrance stabilization	23. Permanent seed / sod	32. Dam
6. Check dam	15. Perimeter ditch	24. Mulch	33. Sand Bag
7. Subsurface drain	16. Curb and gutter	25. Hay Bales	34. Other
8. Pipe slope drain	17. Paved road surface	26. Geotextile	
9. Level spreaders	18. Rock outlet protection	27. Rip-rap	

Inspector Information:

Name Qualification Date
The above signature also shall certify that this facility is in compliance with the Stormwater Pollution Prevention Plan and the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities if there are not any incidents of non-compliance identified above.

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Name (Responsible Authority) Date

PROJECT TITLE:
RONNYS CARWASH OF CANTONMENT

ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: RY6515
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (OFC)
850-477-1176 (FAX)
GREGORY ALLEN CAMPBELL, P.E.
FL PE LICENSE #: 39572

SHEET TITLE:
SWPPP BMP NOTES

DATE: 03-11-22
SCALE: N.T.S.

SHEET NUMBER:
C6

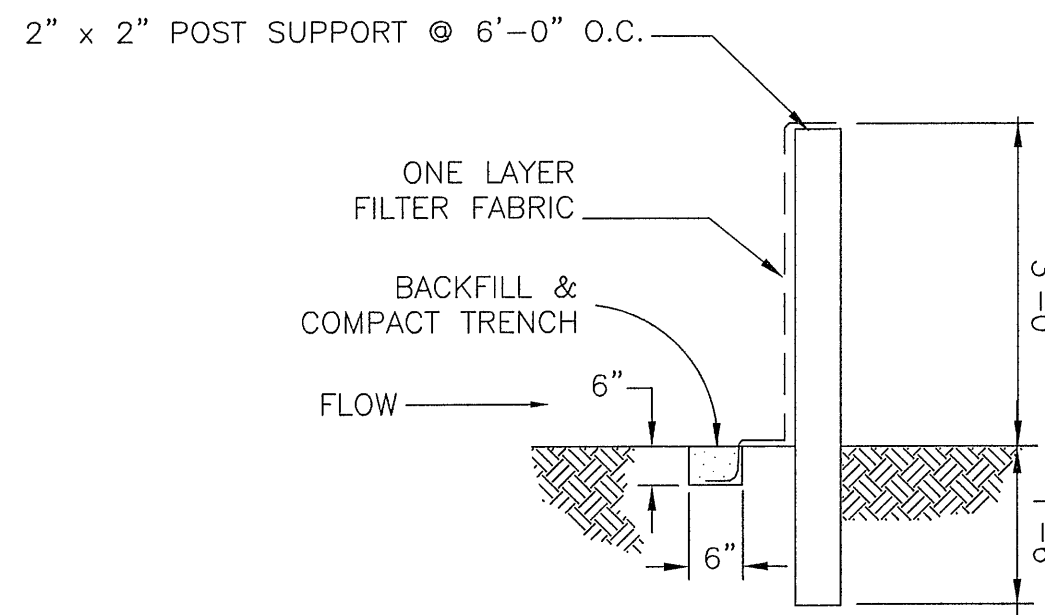
SHEET 7 OF 15

DATE: 03-11-22

SCALE: N.T.S.

SHEET NUMBER:

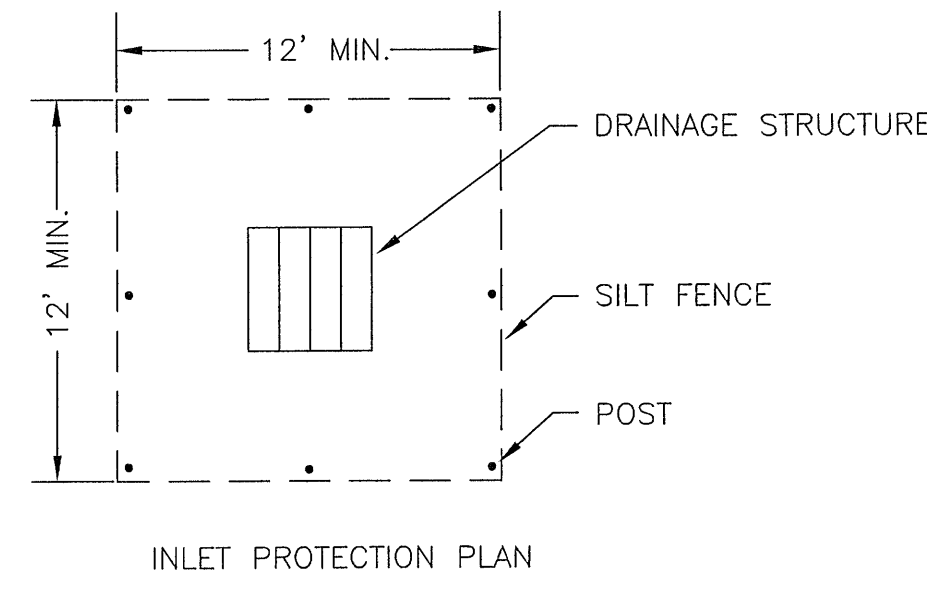
SHEET 7 OF 15



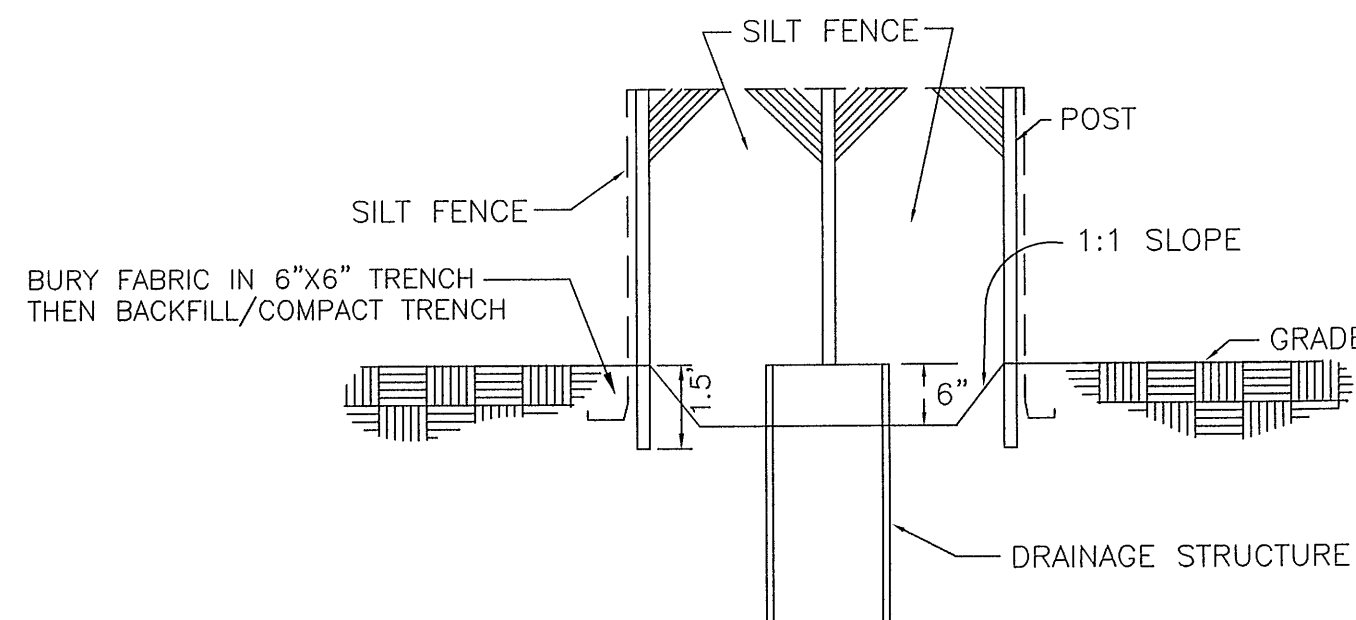
SILT FENCE DETAIL
N.T.S.

SILT FENCE NOTES

1. SILT FENCE SHALL BE ERECTED AND MAINTAINED AROUND ALL DRAINAGE STRUCTURES UNTIL DRAINAGE AREAS ARE PAVED OR STABILIZED TO PREVENT EROSION. SILT FENCE SHALL BE IN ACCORDANCE WITH DETAILS, AS SHOWN THIS SHEET.
2. FABRIC MAY BE ATTACHED TO POSTS BY STAPLES, NAILS, WIRE, CORD OR POCKETS. MINIMUM NUMBER OF FASTENERS SHALL BE 5, EQUALLY SPACED. NAILS SHALL BE 14 GAUGE, 1" LONG, 3/4" BUTTON HEADS. STAPLES SHALL BE 17 GAUGE, 3/4" WIDE, 1/2" LONG LEGS.
3. EROSION CONTROL IS TO BE CONSTRUCTED BEFORE ANY CONSTRUCTION IS TO BEGIN.



INLET PROTECTION PLAN



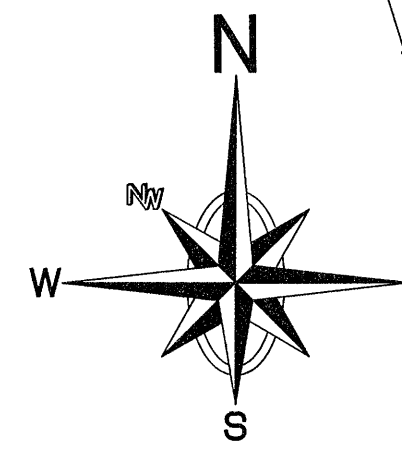
INLET PROTECTION DETAIL SECTION

CONSTRUCTION ENTRANCE NOTES:

1. THE AREA OF THE CONSTRUCTION ENTRANCE SHALL BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL PRIOR TO PLACEMENT OF GRAVEL.
2. THE AGGREGATE SIZE OF THE GRAVEL UTILIZED FOR CONSTRUCTION ENTRANCE SHALL BE 2" TO 3" COARSE GRAVEL AND SHALL BE 6-INCHES THICK.
3. THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION ENTRANCE TO PREVENT TRACKING OR FLOWING ONTO RIGHT-OF-WAY. SLOPE OF CONSTRUCTION ENTRANCE SHALL BE AWAY FROM THE ROADWAY OR TOWARD THE WEST CONTRACTOR SHALL DRESS WITH 2-INCH THICK LAYER OF GRAVEL AS CONDITIONS DEMAND.
4. CONTRACTOR SHALL IMMEDIATELY REMOVE ALL MATERIALS SPILLED, DROPPED, TRACKED OR WASHED FROM VEHICLES ONTO ROADWAY.

LAND DISTURBANCE ACTIVITIES

1. All trees shall remain onsite and any proposed land clearing or land disturbance activities, including the placement of fill/fill materials, grading, excavating, etc. shall not occur until such time as appropriate permit(s) are issued for such site work.
2. All land shall remain vegetated & in its natural state until such time as DRC Site Plan & any additional permitting approvals allow for such, per code. All tree removal, land clearing, placement of fill materials, or other Land Disturbing Activities, etc. shall be permitted or otherwise approved by the County prior to initiation.



GRAPHIC SCALE

(FEET)

SCALE: 1" = 30'

INSTALL DOUBLE ROW OF SILT FENCE AS SHOWN

INSTALL SILT FENCE (SEE DETAIL THIS SHT)

INSTALL SILT FENCE (SEE DETAIL THIS SHT)

INSTALL SILT FENCE (SEE DETAIL THIS SHT)

INSTALL INLET PROTECTION PER DETAIL THIS SHEET

INSTALL SILT FENCE (SEE DETAIL THIS SHT)

INSTALL SILT FENCE (SEE DETAIL THIS SHT)

TEMPORARY GRAVEL CONSTRUCTION DRIVEWAY ENTRANCE SHALL BE CONSTRUCTED AT EXISTING GRASS DRIVEWAY W/ CULVERT TO PREVENT SEDIMENT TRANSFER & DEPOSIT ONTO STATE ROAD 95 DURING CONSTRUCTION. SEE CONSTRUCTION ENTRANCE NOTES THIS SHEET.

LEGEND:

- NEW ONSITE CONCRETE PAVEMENT
- NEW FDOT ACCESS DRIVEWAY PAVEMENT SEE FDOT PERMIT DWGS FOR DETAILS
- NEW FDOT LEFT TURN LANE PAVEMENT SEE FDOT PERMIT DWGS FOR DETAILS
- PROPOSED 4' MIN CHAIN-LINK OR WOODEN FENCE
- CMU WALL
- MSE WALL
- PROPOSED SILT FENCE

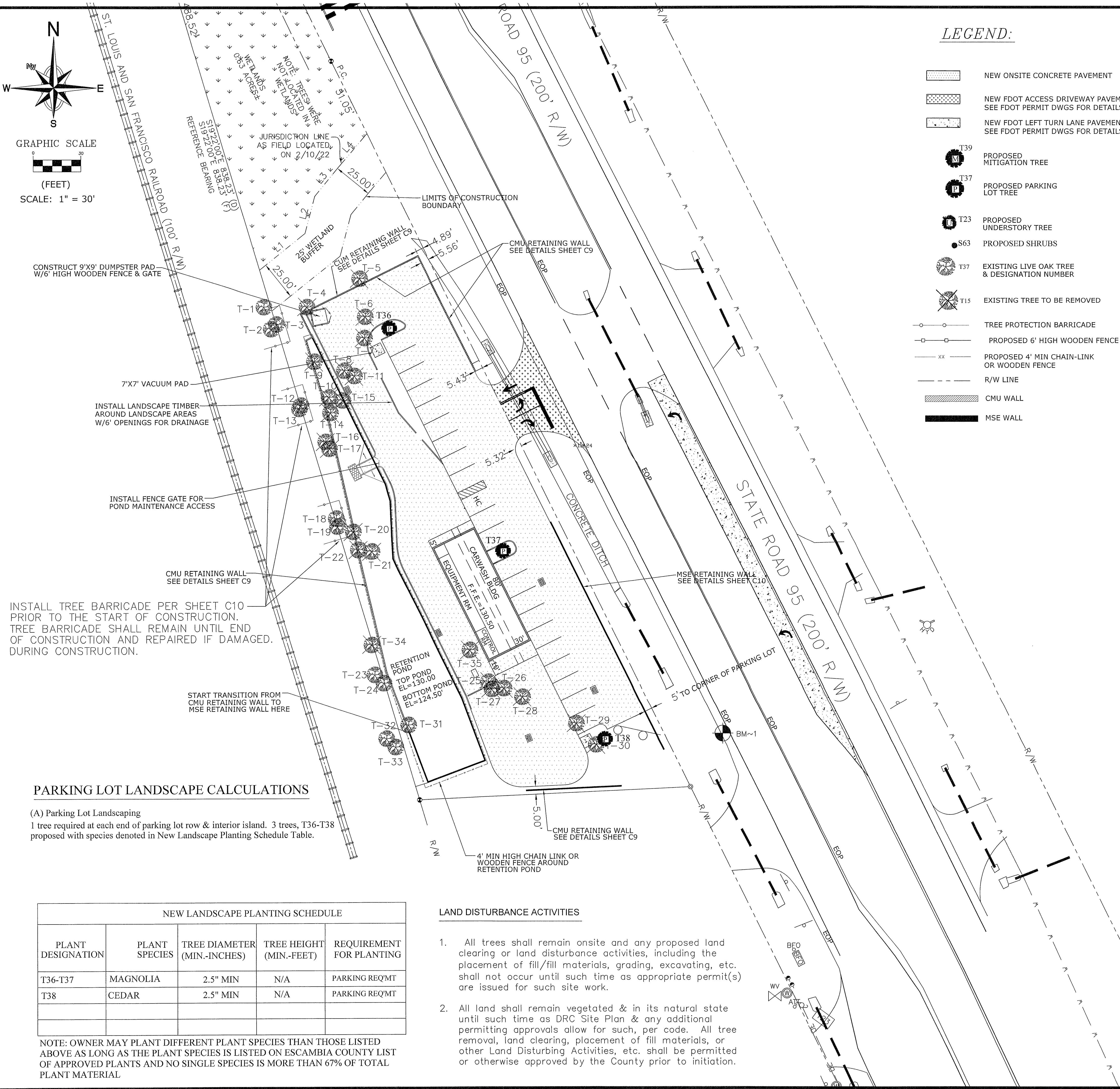
DATE	BY	REVISIONS	NO.
05-06-22	GAC		1
ESCAMBIA COUNTY COMMENTS			
PROJECT TITLE: RONNYS CARWASH OF CANTONMENT			
SHEET TITLE: EROSION CONTROL PLAN			
DATE: 03-11-22			
SCALE: 1"=30'			
SHEET NUMBER: C7			
SHEET 8 OF 15			
6-2-22			

LANDSCAPE NOTES:

1. All landscape material shall be installed in a sound workmanlike Manner and in accordance with the tree and shrub planting detail of this landscape plan.
2. Newly planted canopy trees shall have a minimum caliper of 2.5 inches measured at 4 inches above root ball planting and normally attain a mature height of at least 20 feet. All plant material shall have a warranty of 2 years. All shrubs shall have a minimum height of 1 foot.
3. Owner shall maintain all landscape areas at all times. Maintenance shall include the prompt replacement of all dead or damaged landscaped material.
4. No more than 67% of landscaping material shall be of the same species.
5. Landscaper shall refer to the Escambia County list of recommended native and non-invasive plant materials for selection of appropriate shrubs, understory and canopy trees. Developer may select any tree and shrub listed on Escambia County list of recommended native and non-invasive plant material in lieu of those designated Tree Schedule Table this sheet as long as no more than 67% of proposed landscaping material is the same species.
6. All non-paved areas and exposed soil/dirt shall be regraded and sodded with grass species normally grown as permanent lawns in Escambia County. All sodd shall be clean and reasonably free of weeds, noxious pests, and diseases. If grass areas are to be seeded sprigged, or plugged specifications must be submitted to the county for approval.
7. The contractor is to be aware of underground utilities throughout landscaped areas that may not be illustrated on this plan. Contractor shall verify location and protect all utilities during excavation and/or finish grading activities.
8. All plants shall conform to the standards for Florida Grade No. 1, or better, per latest edition of "Grades and Standards for Nursery Plants, Division of Plant Industry, Florida Department of Agriculture and Consumer Services".

EXISTING TREE SCHEDULE & MITIGATION CHART					
PLANT DESIGNATION	PLANT SPECIES	TREE DIA. (INCHES)	ACTION	REASON FOR REMOVAL	MITIGATION REQUIREMENTS (CALIPER INCHES)
T1	LIVE OAK	20	REMOVE	OFFSITE	0
T2	LIVE OAK	19	REMAIN	OFFSITE	0
T3	LIVE OAK	24	REMAIN		0
T4	LIVE OAK	14	REMOVE	GRADING/WALL	14
T5	LIVE OAK	19	REMOVE	GRADING/WALL	19
T6	LIVE OAK	12	REMOVE	DRIVEWAY	12
T7	LIVE OAK	17	REMOVE	DRIVEWAY	17
T8	LIVE OAK	13	REMOVE	DRIVEWAY	13
T9	LIVE OAK	12	REMOVE	SW POND	12
T10	LIVE OAK	14	REMOVE	SW POND	14
T11	LIVE OAK	19	REMOVE	DRIVEWAY	19
T12	LIVE OAK	13	REMAIN		0
T13	LIVE OAK	40	REMAIN		0
T14	LIVE OAK	14	REMOVE	SW POND	14
T15	LIVE OAK	20	REMOVE	SW POND	20
T16	LIVE OAK	19	REMOVE	GRADING/WALL	19
T17	LIVE OAK	14	REMOVE	GRADING/WALL	14
T18	LIVE OAK	18	REMAIN		0
T19	LIVE OAK	12	REMAIN		0
T20	LIVE OAK	13	REMOVE	SW POND	13
T21	LIVE OAK	18	REMOVE	SW POND	18
T22	LIVE OAK	18	REMOVE	SW POND	18
T23	LIVE OAK	20	REMAIN	OFFSITE	0
T24	LIVE OAK	14	REMOVE	SW POND	14
T25	LIVE OAK	15	REMOVE	BLDG/DRIVE	15
T26	LIVE OAK	16	REMOVE	BLDG/DRIVE	16
T27	LIVE OAK	15	REMOVE	BLDG/DRIVE	15
T28	LIVE OAK	15	REMOVE	BLDG/DRIVE	15
T29	LIVE OAK	18	REMOVE	PARKING LOT	18
T30	LIVE OAK	20	REMOVE	GRADING	20
T31	LIVE OAK	12	REMOVE	SW POND	12
T32	LIVE OAK	20	REMAIN	OFFSITE	0
T33	LIVE OAK	25	REMAIN	OFFSITE	0
T34	LIVE OAK	31	REMOVE	GRADING/WALL	31
T35	LIVE OAK	18	REMOVE	BLDG/DRIVE	18
TOTAL INCHES IN MITIGATION PLANTING REQUIREMENTS PER TABLE					410"
TOTAL INCHES IN CREDIT RECEIVED					0"
TOTAL INCHES IN MITIGATION TO BE PLANTED					0"

TOTAL CALIPER INCHES OF MITIGATION/REPLACEMENT TREES REQUIRED IS 50% X TOTAL INCHES REMOVED OR 410" X 0.50 = 205 INCHES. HOWEVER, REPLACEMENT/MITIGATION TREE CAP IS 1.81 ACRES X 25 CALIPER INCHES/ACRE OR 46.25 CALIPER INCHES OF MITIGATION. THE DEVELOPER WILL BE PAYING INTO THE ESCAMBIA COUNTY TREE FUND. NUMBER OF TREES = 46.25"/2.5" PER TREE= 18 TREES. TREE FUND PAYMENT REQUIRED=18TREES X \$350/TREE=\$6,300.



PARKING LOT LANDSCAPE CALCULATIONS

(A) Parking Lot Landscaping
1 tree required at each end of parking lot row & interior island. 3 trees, T36-T38 proposed with species denoted in New Landscape Planting Schedule Table.

NEW LANDSCAPE PLANTING SCHEDULE				
PLANT DESIGNATION	PLANT SPECIES	TREE DIAMETER (MIN.-INCHES)	TREE HEIGHT (MIN.-FEET)	REQUIREMENT FOR PLANTING
T36-T37	MAGNOLIA	2.5" MIN	N/A	PARKING REQ'MT
T38	CEDAR	2.5" MIN	N/A	PARKING REQ'MT

NOTE: OWNER MAY PLANT DIFFERENT PLANT SPECIES THAN THOSE LISTED ABOVE AS LONG AS THE PLANT SPECIES IS LISTED ON ESCAMBIA COUNTY LIST OF APPROVED PLANTS AND NO SINGLE SPECIES IS MORE THAN 67% OF TOTAL PLANT MATERIAL

LAND DISTURBANCE ACTIVITIES

1. All trees shall remain onsite and any proposed land clearing or land disturbance activities, including the placement of fill/fill materials, grading, excavating, etc. shall not occur until such time as appropriate permit(s) are issued for such site work.
2. All land shall remain vegetated & in its natural state until such time as DRC Site Plan & any additional permitting approvals allow for such, per code. All tree removal, land clearing, placement of fill materials, or other Land Disturbing Activities, etc. shall be permitted or otherwise approved by the County prior to initiation.

LEGEND:

- NEW ONSITE CONCRETE PAVEMENT
- NEW FDOT ACCESS DRIVEWAY PAVEMENT SEE FDOT PERMIT DWGS FOR DETAILS
- NEW FDOT LEFT TURN LANE PAVEMENT SEE FDOT PERMIT DWGS FOR DETAILS
- T39 PROPOSED MITIGATION TREE
- T37 PROPOSED PARKING LOT TREE
- T23 PROPOSED UNDERSTORY TREE
- S63 PROPOSED SHRUBS
- T37 EXISTING LIVE OAK TREE & DESIGNATION NUMBER
- T15 EXISTING TREE TO BE REMOVED
- TREE PROTECTION BARRICADE
- PROPOSED 6' HIGH WOODEN FENCE
- PROPOSED 4' MIN CHAIN-LINK OR WOODEN FENCE
- R/W LINE
- CMU WALL
- MSE WALL

05-06-22	1	NO.	BY	DATE
ESCAMBIA COUNTY COMMENTS				
ENVIRONMENTAL ENGINEERING SERVICES FIRM REGISTRATION #: RY6515 2120 MARIA CIRCLE PENSACOLA, FLORIDA 32514 850-982-8606 (OFC) 850-477-1176 (FAX) GREGORY ALLEN CAMPBELL, P.E. FL PE LICENSE #: 38572				
PROJECT TITLE: RONNY'S CARWASH OF CANTONMENT 2429 S HIGHWAY 29 CANTONMENT, FLORIDA ESCAMBIA COUNTY				
SHEET TITLE: LANDSCAPE PLAN				
DATE: 03-11-22				
SCALE: 1"=30'				
SHEET NUMBER: C8				
SHEET 9 OF 15				
 6-2-22				

GENERAL NOTES:

1. TO THE BEST OF OUR KNOWLEDGE, STRUCTURAL PLANS AND SPECIFICATIONS COMPLY WITH ALL APPLICABLE REQUIREMENTS OF CODES AND STANDARDS.
2. THIS RETAINING WALL IS DESIGNED TO WITHSTAND ULTIMATE WINDSPEED OF 159 MPH AS SPECIFIED INTERNATIONAL BUILDING CODE 2012 AND SECTION 1609, AND WIND FORCES BY ASCE 7-16.
3. THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS. CONTACT GREGORY ALLEN CAMPBELL, P.E. PRIOR TO CONSTRUCTION IF CONFLICTS EXIST.

ENGINEER OF RECORD: GREGORY ALLEN CAMPBELL, PE - AL#21109

DESIGN LOADS IBC 2012 AND ASCE 7-16:
A) 8" MASONRY SELF WEIGHT (SOLID): 86 PSF (DL)
A) 12" MASONRY SELF WEIGHT (SOLID): 131 PSF (DL)
B) CONCRETE SELF WEIGHT: 150 PCF DEAD LOAD (DL)

WIND CRITERIA:
1) ULTIMATE WINDSPEED: 159 MPH (3-SECOND GUST)
2) NOMINAL WINDSPEED: 124 MPH
3) RISK CATEGORY: II
4) EXPOSURE CATEGORY: C
5) STRUCTURE IS OPEN
6) INTERNAL PRESSURE COEFFICIENT: (+/-) 0.00

RETAINING WALL DESIGN ASSUMPTIONS:

1. FOUNDATION DESIGN IS BASED ON AN ASSUMED ALLOWABLE SOIL BEARING CAPACITY OF 1500 PSF.
2. REPORT ANY UNUSUAL FIELD CONDITIONS TO ENGINEER OR RECORD PRIOR TO CONSTRUCTION.
3. GEOTECHNICAL ENGINEERING OF THE SITE WOULD BE REQUIRED TO VERIFY ALL SOIL CONDITIONS.
4. CONTRACTOR SHALL FOLLOW GEOCON ENGINEERING & MATERIALS TESTING, INC. GEOTECHNICAL REPORT FOR RONNY'S CARWASH OF MOBILE DATED AUGUST 6, 2021 FOR RECOMMENDED RETAINING WALL SUBGRADE PREPARATION REQUIREMENT FOR RETAINING WALL FOUNDATION AND ALSO THE REQUIREMENTS AND RECOMMENDATIONS FOR PLACEMENT OF RETAINING WALL BACKFILL.
6. ACTIVE PRESSURE K_a PRESSURE COEFFICIENT = 0.30
7. ASSUMED SOIL FRICTION COEFFICIENT = 0.35
8. SOIL UNIT WEIGHT = 125 PCF (SANDY SOILS)
9. RANKINE ACTIVE WITH FRICTION ANGLE = 30 DEG.
10. WALL IS NOT DESIGNED TO RETAIN WATER. CONTRACTOR SHALL PROVIDE ADEQUATE DRAINAGE SYSTEM BEHIND WALL.
11. WALL IS NOT DESIGNED TO RESIST WAVE ACTION. CONTRACTOR TO PROVIDE PROPER BARRIER TO PREVENT WAVE ACTION AGAINST WALL.
12. BOTTOM OF FOOTING SHALL BE SET BELOW THE ANTICIPATED SCOUR DEPTH. SCOUR IS ASSUMED TO BE 24" ON THIS SITE.
13. COMPACT ALL SOILS BENEATH FOOTINGS IN ACCORDANCE WITH GEOTECHNICAL REPORT PREPARED BY GEOCON ENGINEERING AND TESTING INC. DATED AUGUST 6, 2021.
14. COMPACTION SHALL BE FIELD CONTROLLED BY GEOCON ENGINEERING AND MATERIAL TESTING INC. PERSONNEL. CONTACT DAVID McKEE P.E. AT 251-979-6258.

CONCRETE MASONRY (CMU):

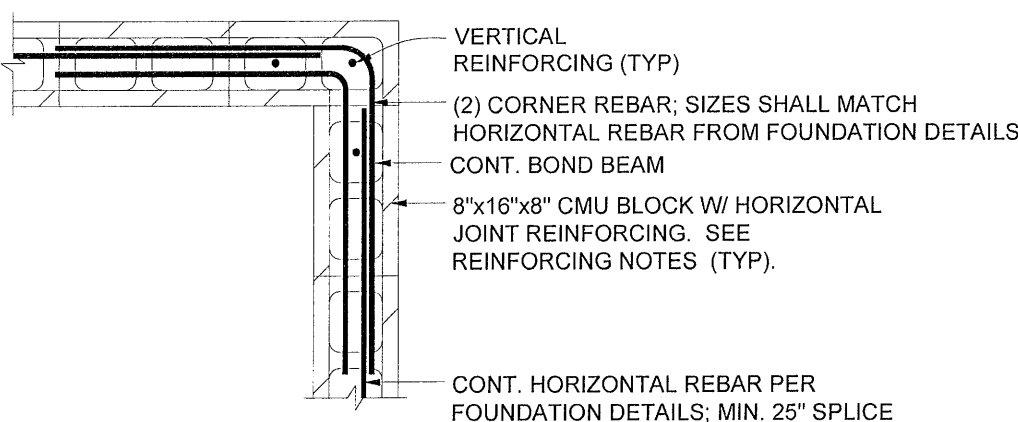
1. ALL MASONRY WORK TO CONFORM TO ACI 530 AND 530.1.
2. CMU UNITS SHALL CONFORM TO ASTM C90.
3. $f_m = 1500$ PSI
4. MORTAR:
A) EXTERIOR, ABOVE GRADE: TYPE N.
B) EXTERIOR, AT OR BELOW GRADE: TYPE S.
C) MORTAR SHALL BE IN ACCORDANCE WITH ASTM C270.
D) ALLOW 24 HOURS MINIMUM CURE TIME PRIOR TO GROUT INSTALLATION.
5. GROUT SHALL MEET SPECIFICATIONS OF ASTM C-476.
A) MINIMUM COMPRESSIVE STRENGTH (f'_c) = 3000 PSI.
6. STANDARD (B-GAGE) LADDER TYPE HORIZONTAL JOINT REINFORCEMENT SHALL BE INSTALLED EVERY OTHER COURSE FOR ALL CMU WALLS EXCEEDING 4 BLOCK IN HEIGHT. CORNERS SHALL USE PREFABRICATED CORNERS AND TEES AT WALL INTERSECTIONS. OVERLAP DISCONTINUOUS ENDS A MINIMUM OF 12".
7. ALL REINFORCING STEEL SHALL BE GRADE 60.
8. ALL WOOD IN CONTACT WITH MASONRY SHALL BE PRESSURE TREATED.
9. DOWEL ALL CMU REINFORCING IN FOOTING AND EXTEND INTO UPPERMOST BOND BEAM WITH 90 DEGREE HOOKS WITH A MINIMUM 8" LEG.
10. PROVIDE FOUR FILLED CELLS OF TYPICAL REINFORCING AT INTERSECTIONS.
11. PROVIDE THREE FILLED CELLS OF TYPICAL REINFORCING AT CORNERS.
12. ALL CONCRETE MASONRY UNITS SHALL BE PLACED IN RUNNING BOND.
13. TYPICAL WALL REINFORCING AS SHOWN IN FOUNDATION DETAILS.
A) ADDITIONAL REINFORCING AS NOTED IN NOTES 10 AND 11.
B) HORIZONTAL REINFORCING AS NOTED IN NOTE 6.
C) GROUT STOP IS A FIBERGLASS MESH CONFORMING TO ASTM D1668-73, TYPE 207.
D) ALL SPLICES SHALL BE 48 BAR DIAMETERS UNLESS SPECIFIED OTHERWISE.

REINFORCED CONCRETE NOTES:

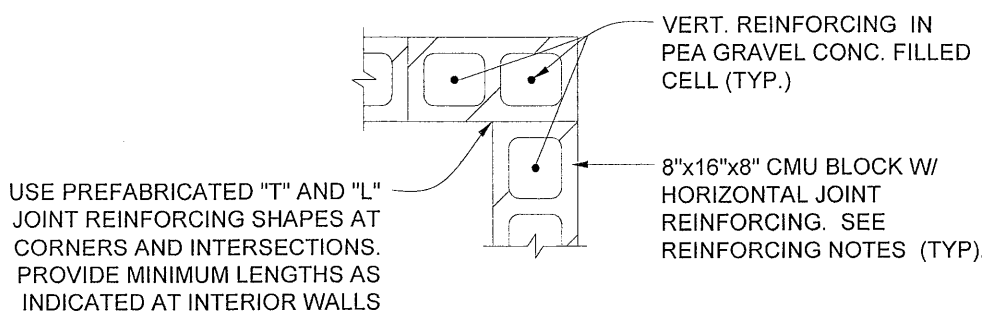
1. ALL CONCRETE SHALL MEET THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTHS IN 28 DAYS:
A) FOOTINGS: 3000 PSI
B) SLABS AND GRADE BEAMS: 3000 PSI
2. THE FOLLOWING REBAR CLEARANCES SHALL BE MET:
A) CAST PERMANENTLY AGAINST THE GROUND: 3"
B) #3-#5 REBAR EXPOSED TO WEATHER, OR IN CONTACT WITH THE GROUND: 1.5"
C) #6-#8 REBAR EXPOSED TO WEATHER, OR IN CONTACT WITH THE GROUND: 2"
D) #9-#11 REBAR WITHIN SLABS AND WALLS, NOT EXPOSED TO WEATHER, AND NOT IN CONTACT WITH GROUND: 3/4"
3. BEAMS AND COLUMNS NOT EXPOSED TO WEATHER, AND NOT IN CONTACT WITH GROUND: 1.5"
3. CEMENT SHALL CONFORM TO "SPECIFICATIONS OF PORTLAND CEMENT", ASTM C 150.
4. CONCRETE AGGREGATES SHALL CONFORM TO "SPECIFICATION FOR CONCRETE AGGREGATES", ASTM C 33.
5. MAXIMUM NOMINAL AGGREGATE SIZE OF SLABS SHALL NOT EXCEED 1/3 OF SLAB DEPTH.
6. WATER USED IN MIXING CONCRETE SHALL BE CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALIS, SALTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT.
7. REINFORCEMENT SHALL BE DEFORMED REINFORCEMENT AND SHALL CONFORM TO "SPECIFICATION OF DEFORMED AN PLAIN BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", ASTM A 615.
8. AIR-ENTRAINING ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR AIR-ENTRAINING ADMIXTURES FOR CONCRETE", ASTM A 615.
9. WATER-REDUCING AND RETARDING ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE", ASTM A 615.
10. FLY ASH OR OTHER POZZOLANS USED AS ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE", ASTM C 494.
11. ALL HOOKS ARE STANDARD PER ACI 318-14, UNLESS NOTED OTHERWISE.
12. ALL LAP SPLICES SHALL BE 48 BAR DIAMETERS UNLESS NOTES OTHERWISE.
13. ALL REINFORCING STEEL SHALL BE GRADE 60.

CONTRACTORS RESPONSIBILITIES:

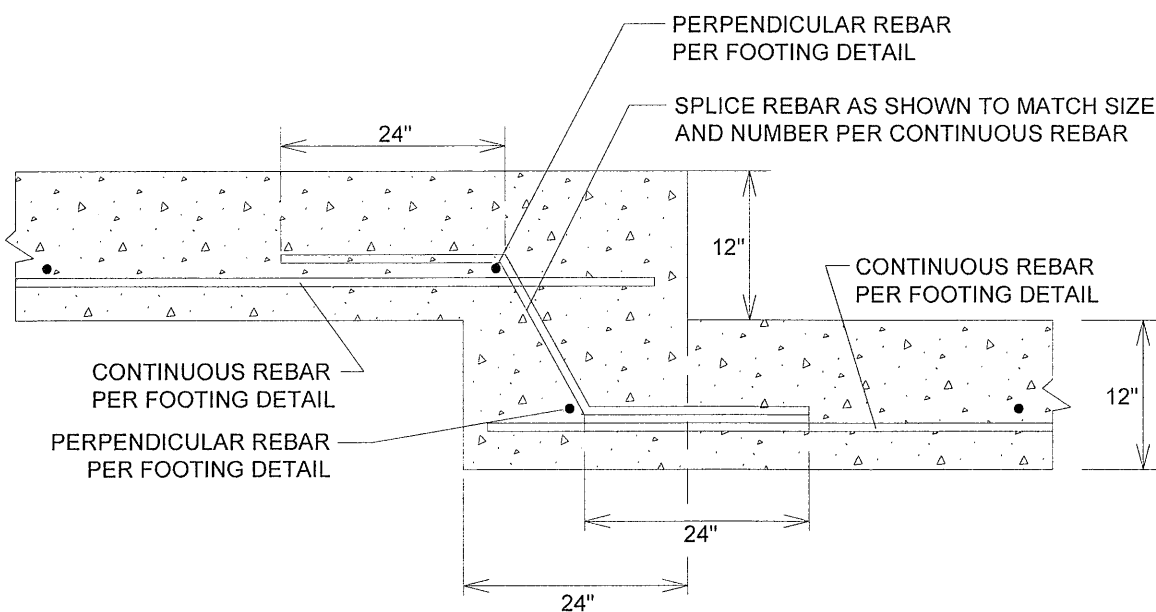
1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS ON SITE AND DESIGN DRAWINGS.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING FLOOD ZONE AND BASE FLOOD ELEVATION REQUIREMENTS.
3. CONTRACTOR SHALL CONTACT ENGINEER OF RECORD FOR ANY DISCREPANCIES.
4. CONTRACTOR SHALL VERIFY ALL ASSUMPTIONS AS SPECIFIED ON THESE DESIGN DRAWINGS.
5. CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE.
6. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
7. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA REGULATIONS.
8. CONTRACTOR SHALL OBTAIN BUILDING INSPECTION PERMIT FOR ANY RETAINING WALLS OVER 2 FEET.



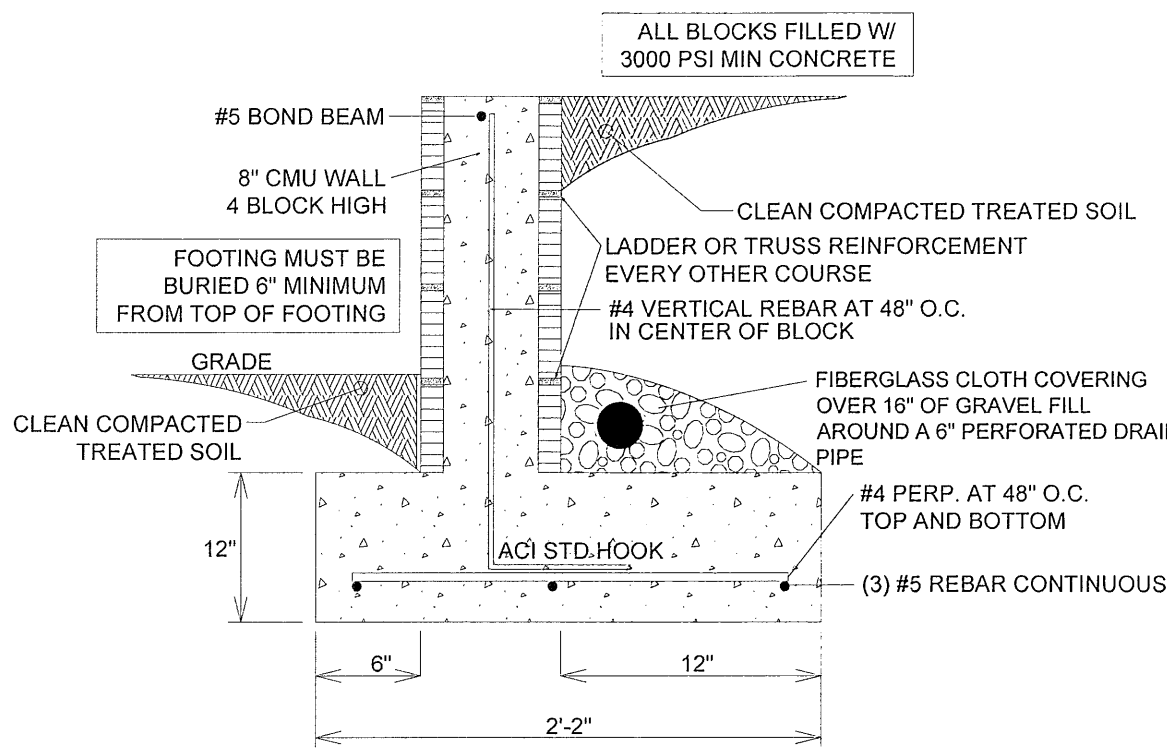
CMU FOUNDATION WALL CORNER
HORIZONTAL REBAR DETAIL
NOT TO SCALE



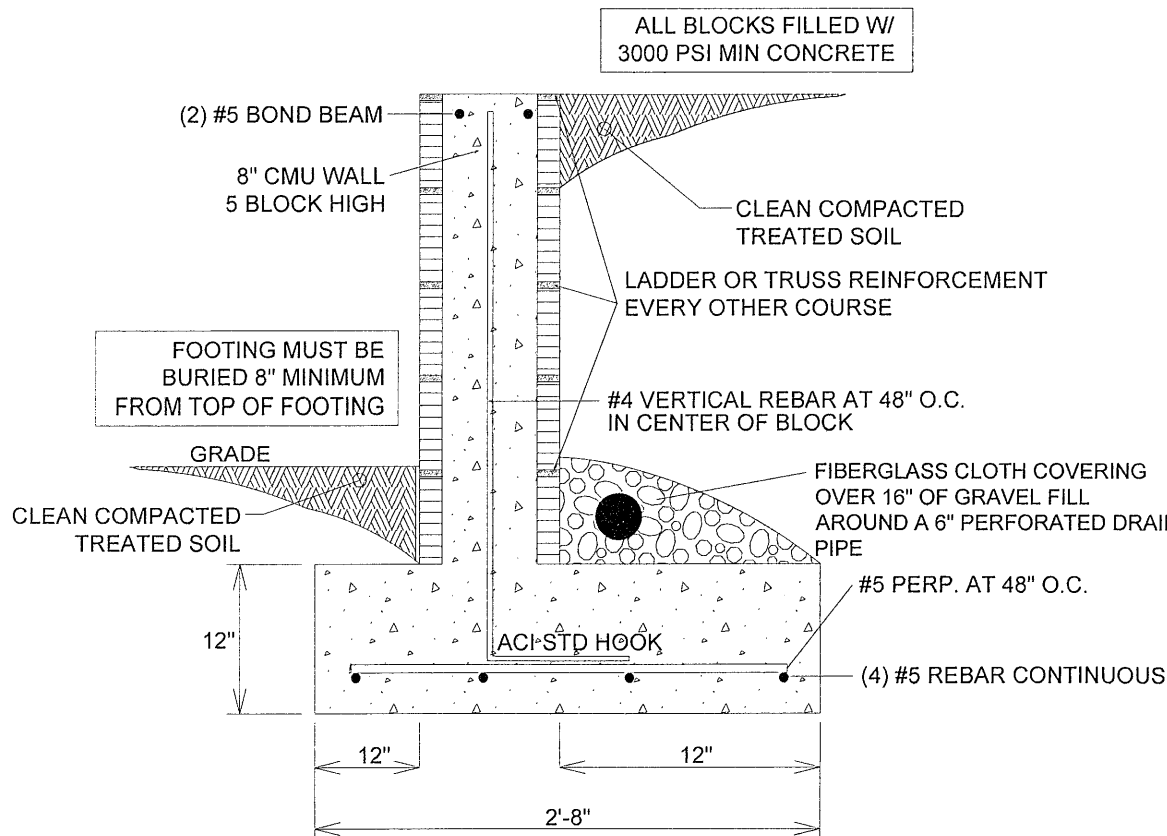
CMU FOUNDATION WALL CORNER
VERTICAL REBAR DETAIL
NOT TO SCALE



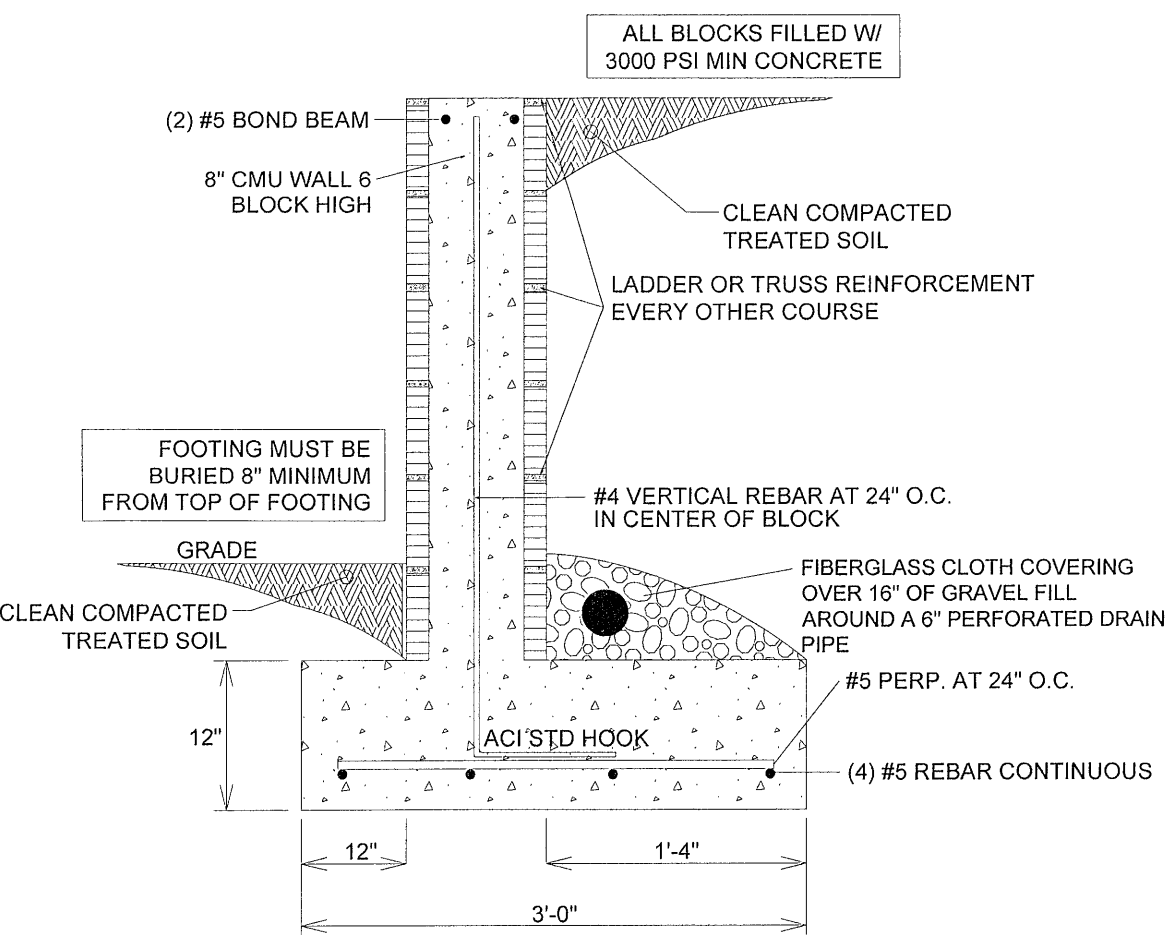
STEPPED FOOTING DETAIL
NOT TO SCALE



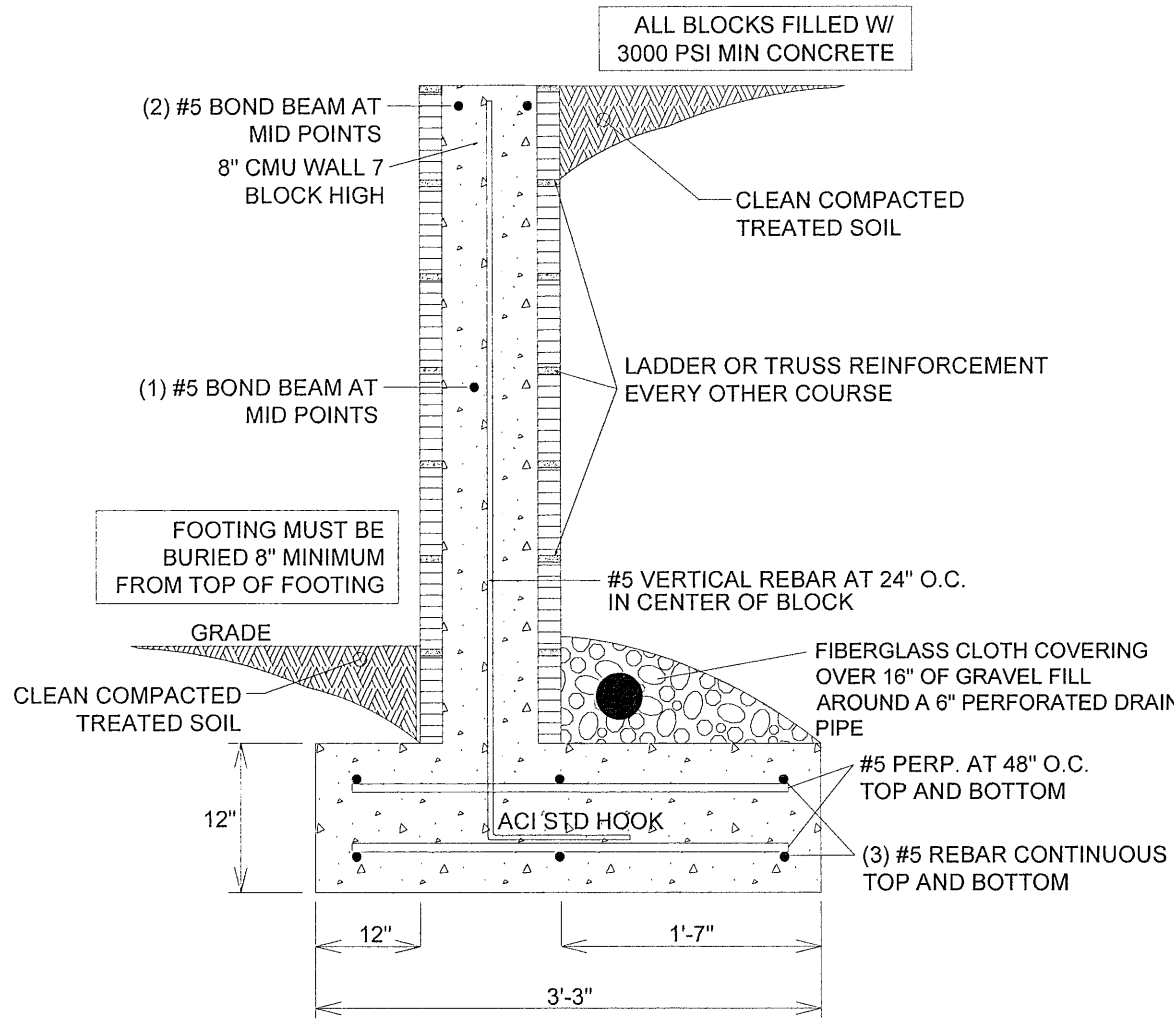
4 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



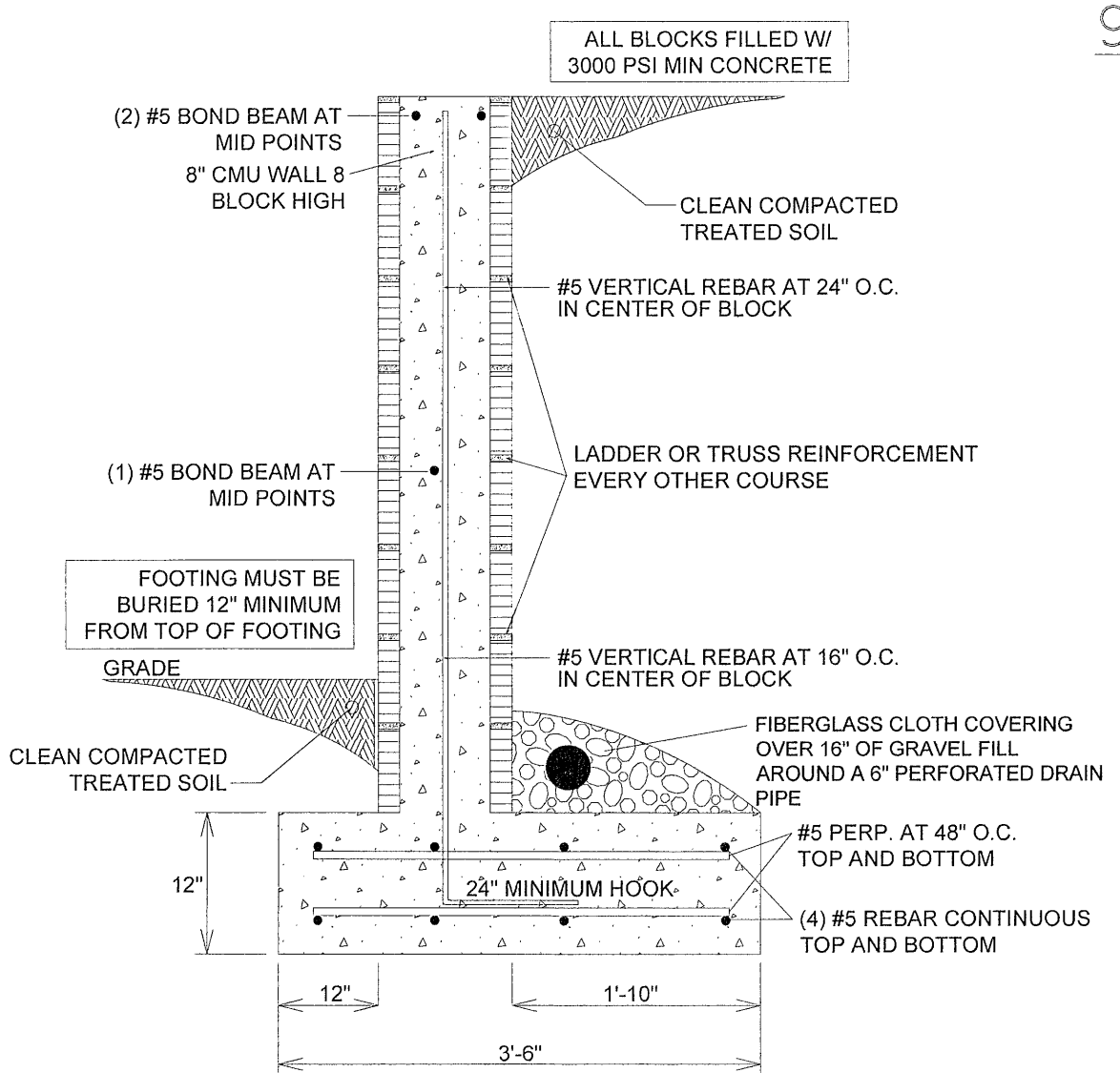
5 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



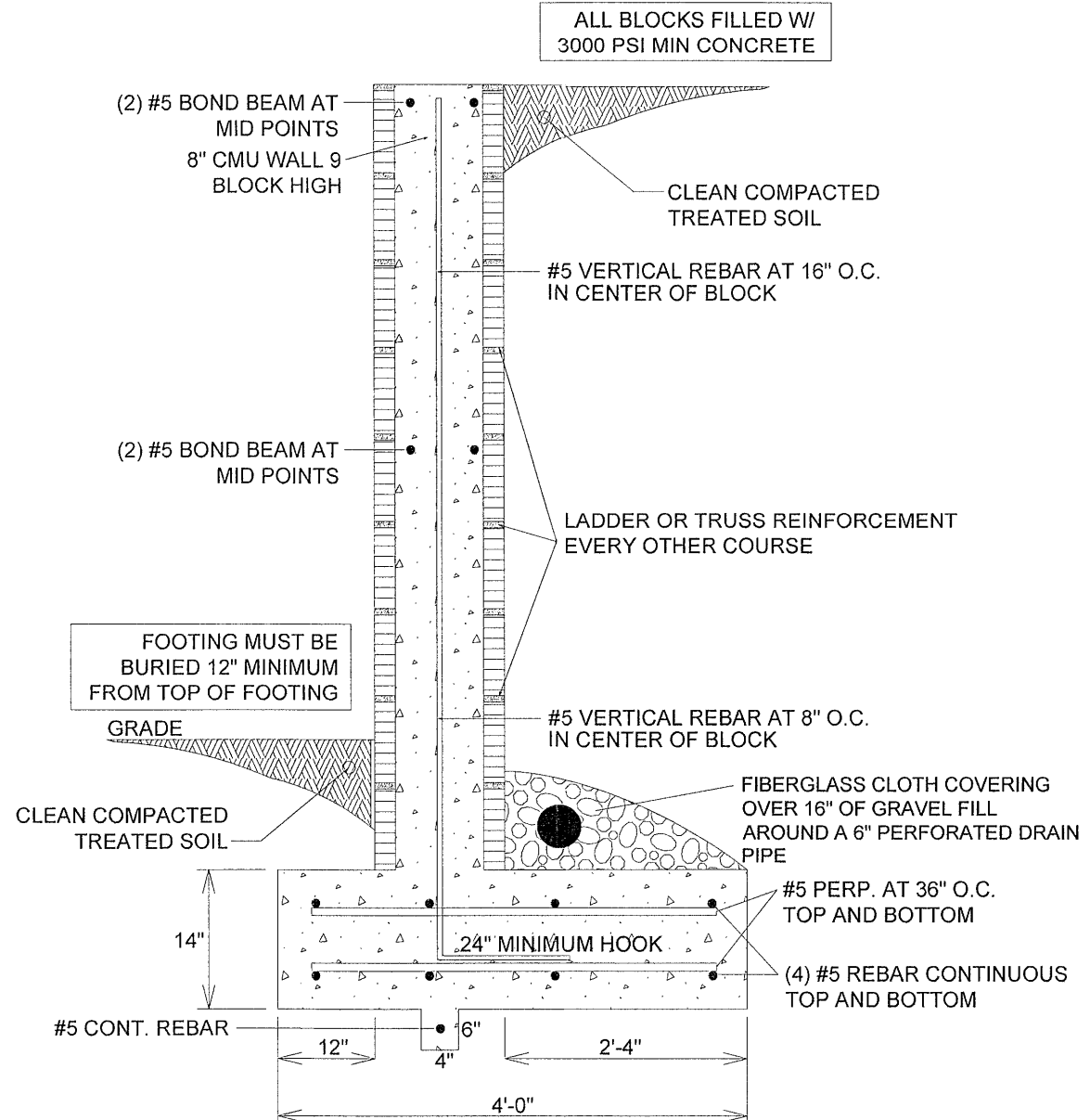
6 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



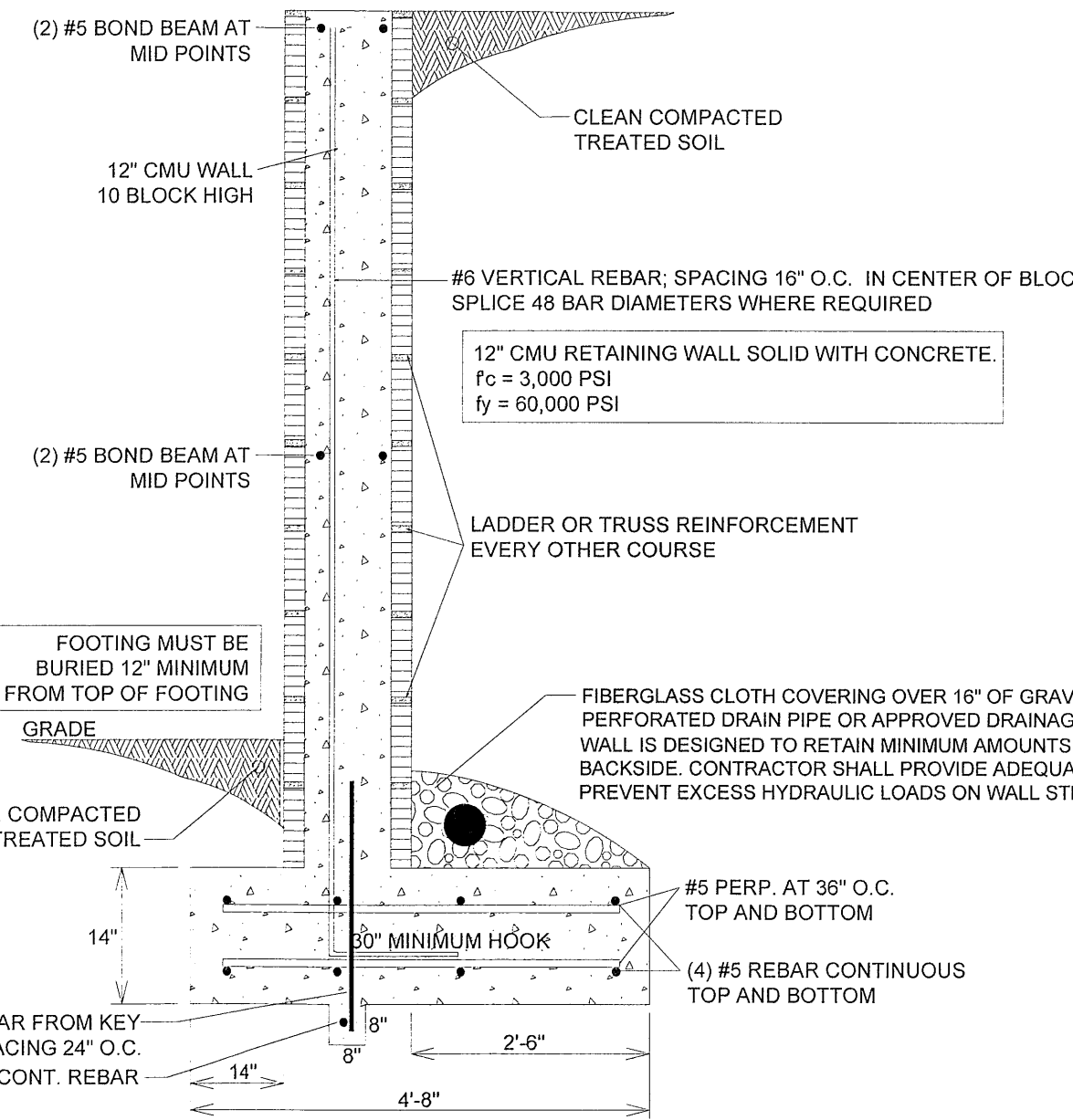
7 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



8 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



9 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE



10 BLOCK HIGH CANTILEVER WALL DETAIL
NOT TO SCALE

DATE	BY	REVISIONS
05-06-22		
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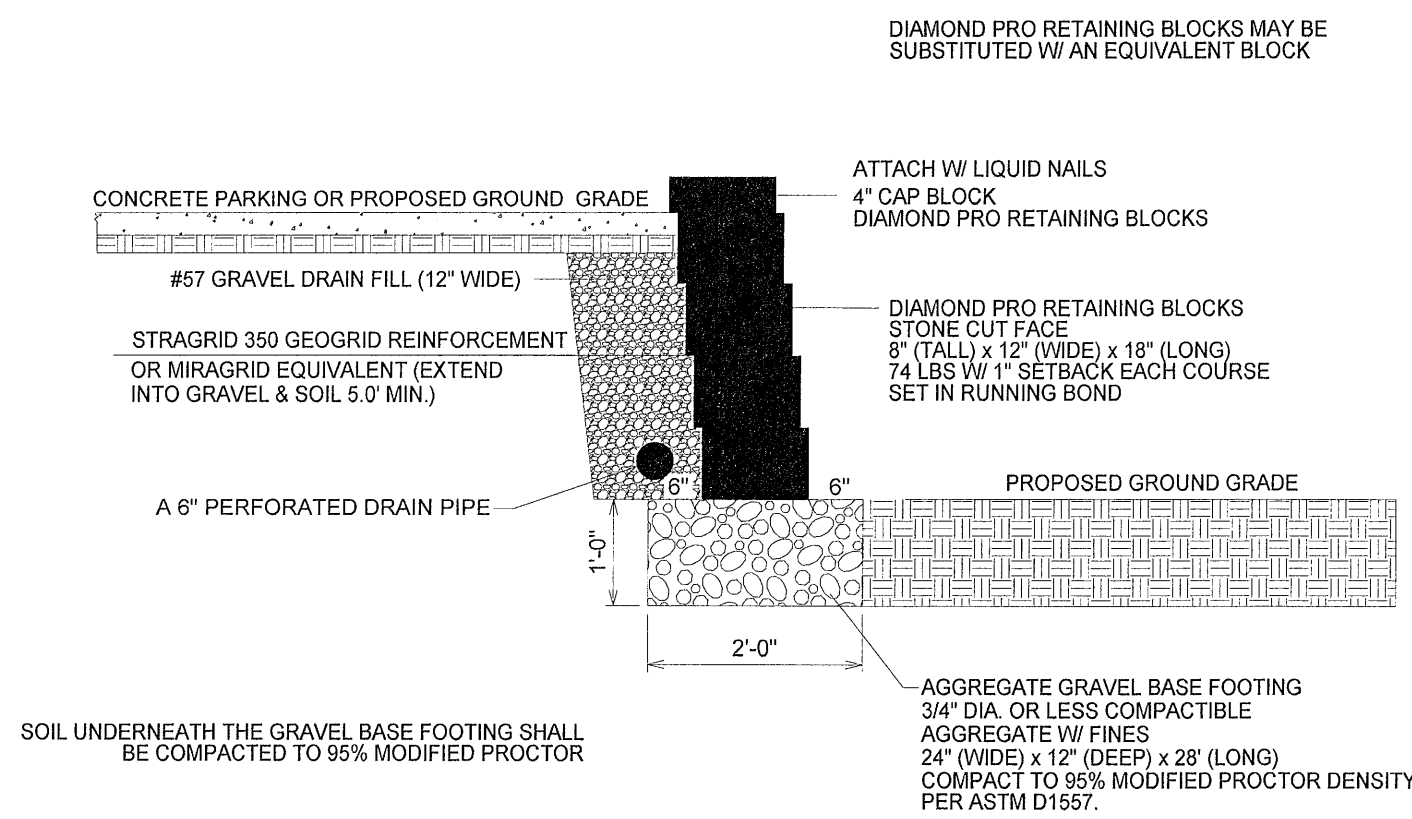
ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: RY6515
GREGORY ALLEN CAMPBELL
FLORIDA PE LICENSE #: 21106
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (OFC)
850-477-1176 (FAX)

PROJECT TITLE:
RONNY'S CARWASH OF CANTONMENT
2429 S HIGHWAY 29
CANTONMENT, FLORIDA
ESCAMBIA COUNTY

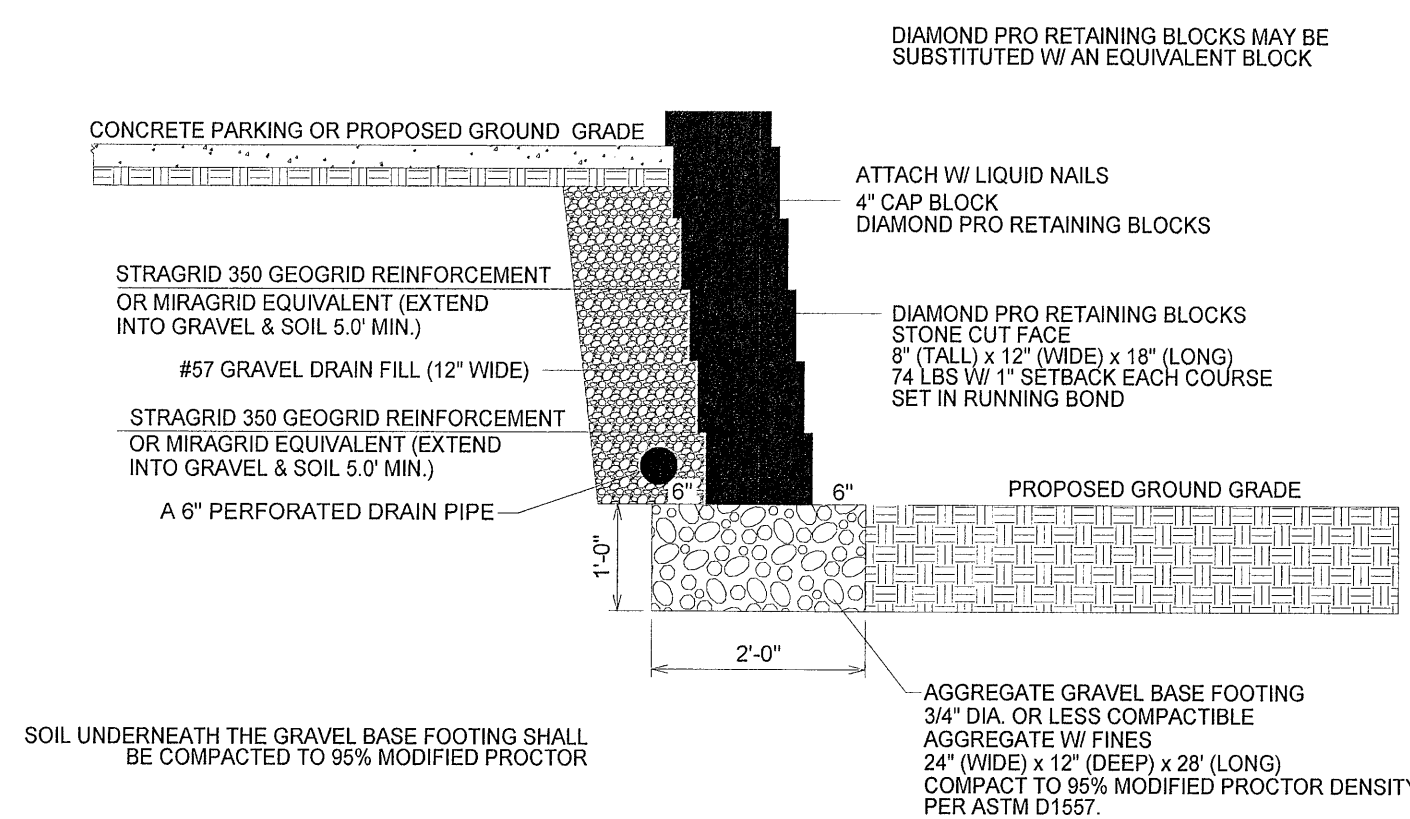
SHEET TITLE:
CMU RETAINING WALL
DETAILS

DATE: 03-11-22
SCALE: 1"=20'
SHEET NUMBER:
C9
SHEET 10 OF 15

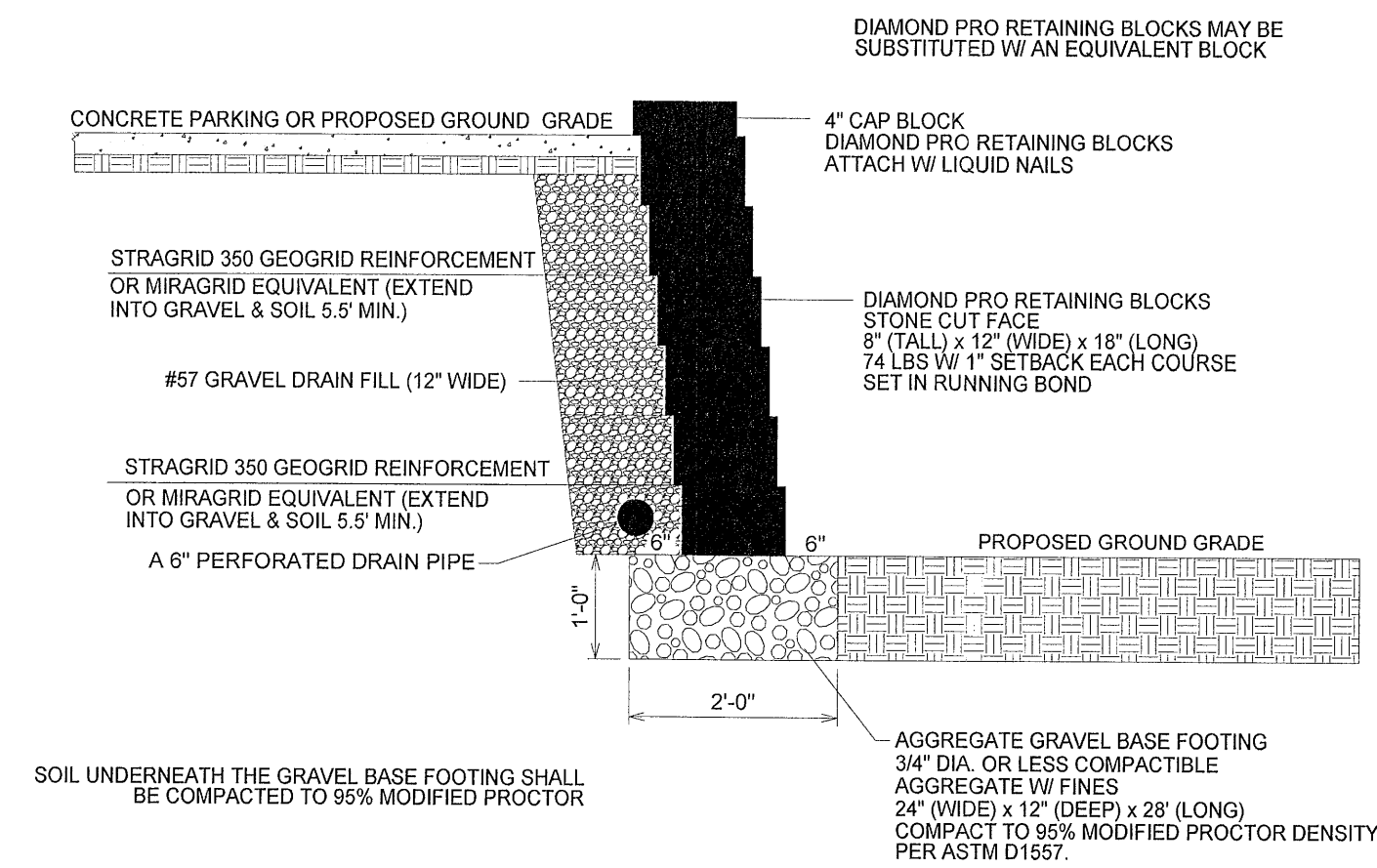
6-2-22



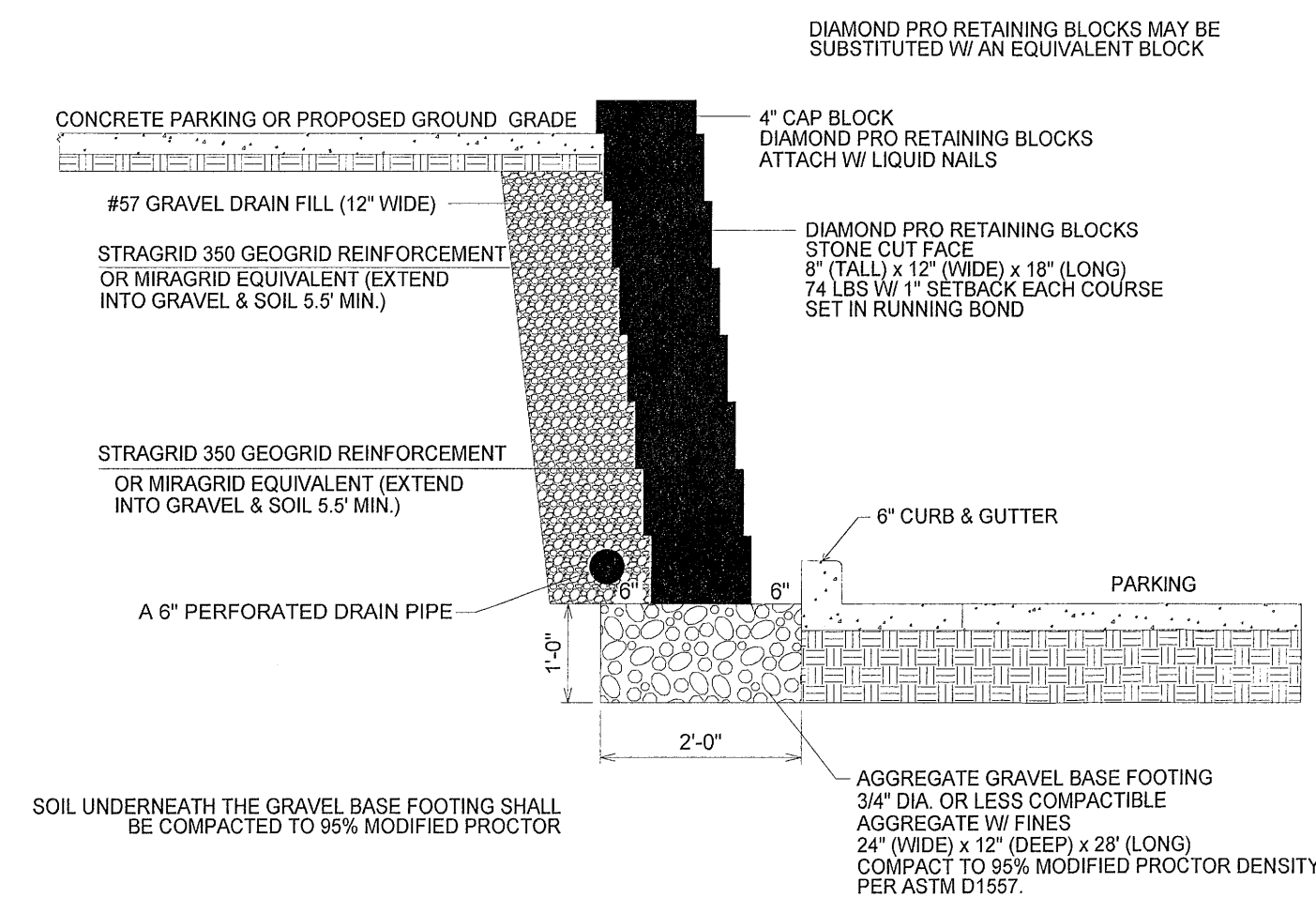
MSE RETAINING WALL-4 BLOCK HIGH-32" TALL SECTION
N.T.S.



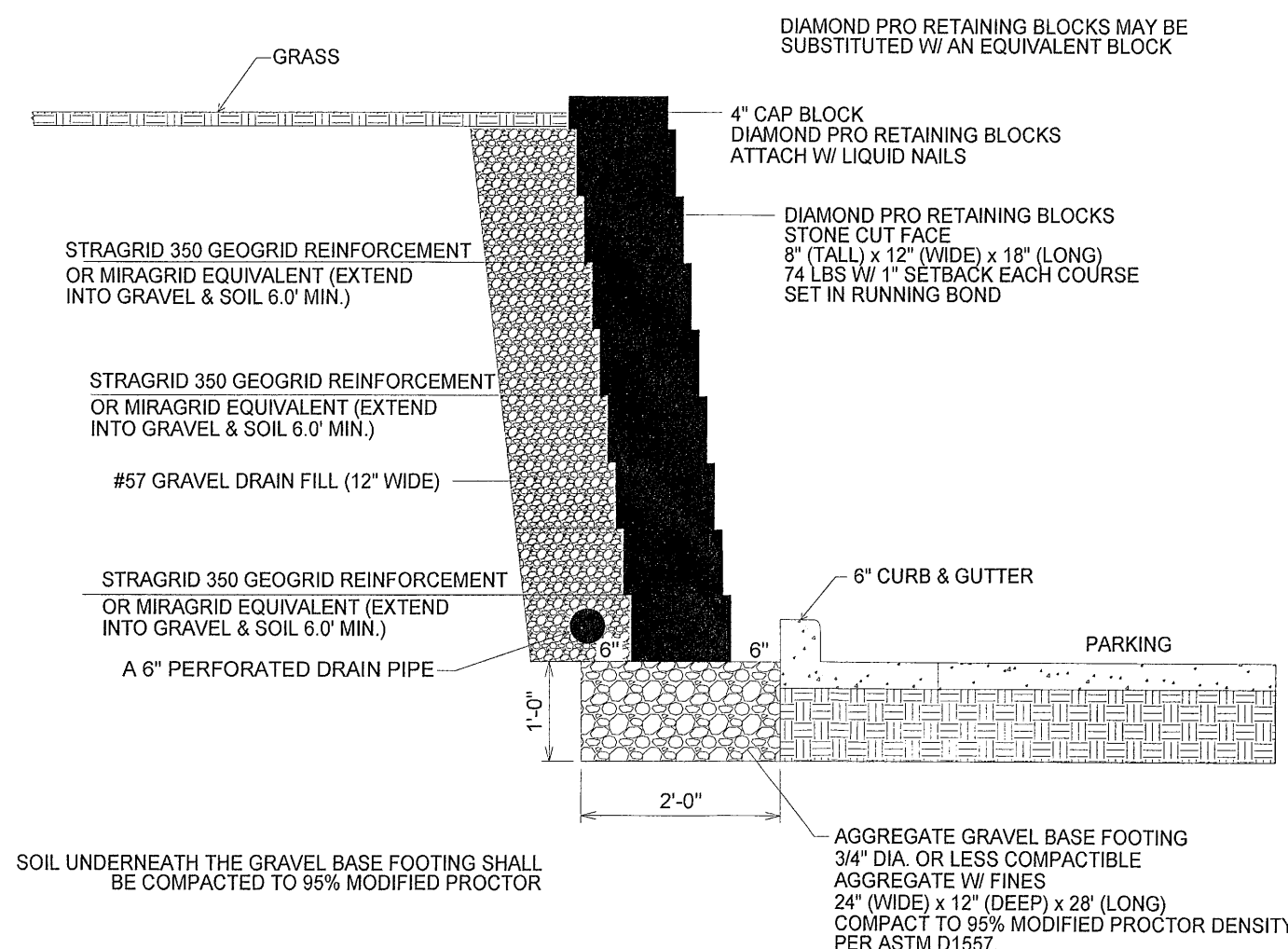
MSE RETAINING WALL-5 BLOCK HIGH-40" TALL SECTION
N.T.S.



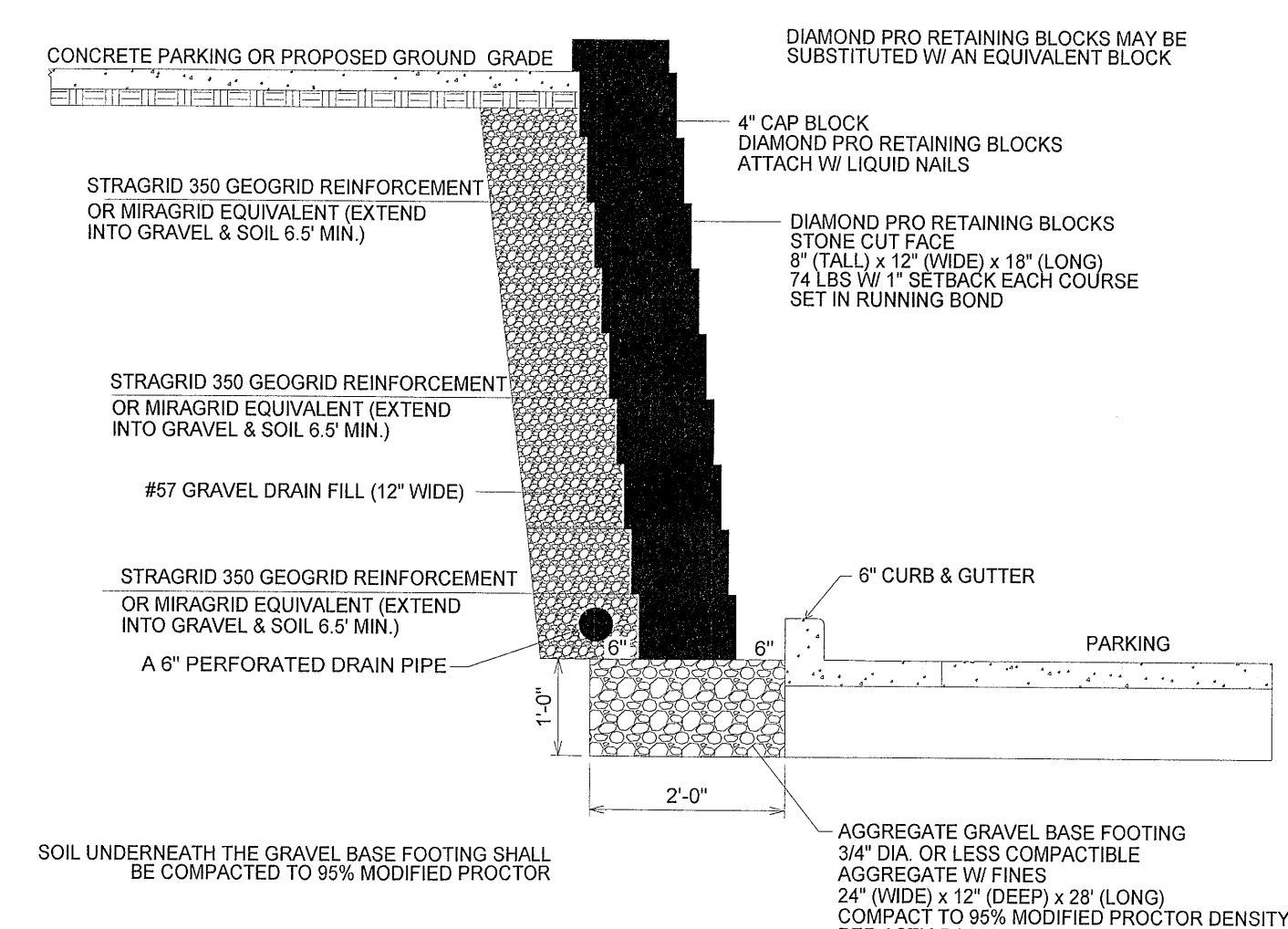
MSE RETAINING WALL-6 BLOCK HIGH-48" TALL SECTION
N.T.S.



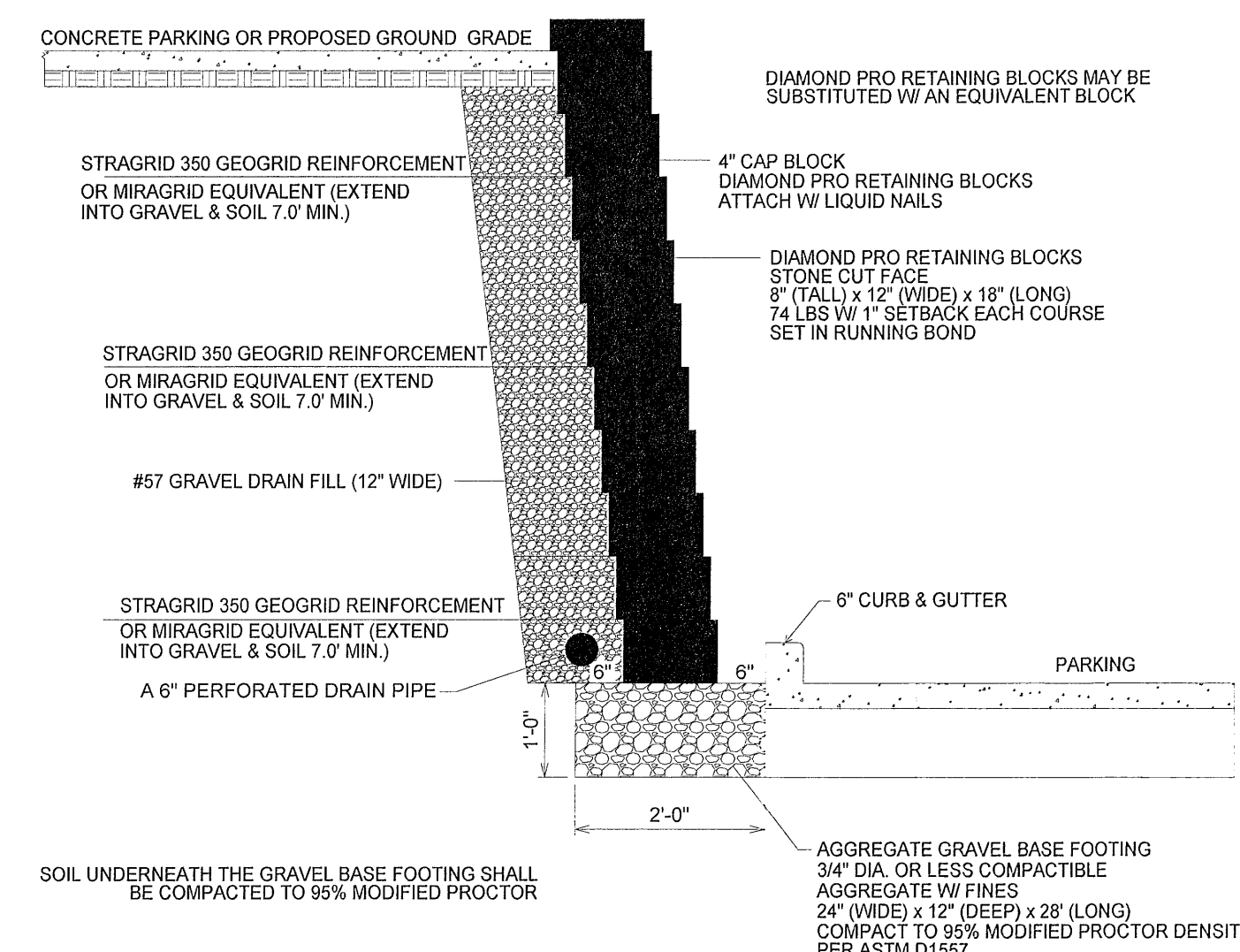
MSE RETAINING WALL-8 BLOCK HIGH-56" TALL SECTION
N.T.S.



MSE RETAINING WALL-8 BLOCK HIGH-64" TALL SECTION
N.T.S.



MSE RETAINING WALL-9 BLOCK HIGH-72" TALL SECTION
N.T.S.



MSE RETAINING WALL-10 BLOCK HIGH-80" TALL SECTION
N.T.S.

GENERAL NOTES:

- ENGINEER OF RECORD: GREGORY ALLEN CAMPBELL, PE, AL# 21106.
- ALL CONCRETE SHALL HAVE 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
- ULTIMATE 100 MPH (3-SEC) AND NOMINAL 124 MPH WIND ZONE, RISK CATEGORY II, EXPOSURE C.
- ASSUMED ALLOWABLE BEARING PRESSURE IS 1500 PSF.
- MOIST SOIL UNIT WEIGHT = 115 PCF.
- SOIL ANGLE OF FRICTION = 30°.
- ALL STEEL SHALL BE STAINLESS STEEL (SS) OR HOT DIP GALV. (HDG).
- ALL STAINLESS STEEL (SS) SHALL BE TYP 304 OR 316.
- IF BLOCK MUST BE CUT FOR CURVES, NO MORE THAN 2" SHALL BE CUT OFF A BLOCK TO CREATE A RADIUS OR ARCH.
- GAPS IN THE WALL THAT ARE LARGER THAN THE GRAVEL FILL SHALL BE FILLED WITH QUICKCRETE TO PREVENT GRAVEL FILL FROM WASHING OUT OF THE GAPS.

ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: RY6515
GREGORY ALLEN CAMPBELL
FLORIDA PE LICENSE #: 21106
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (OFC)
850-477-1176 (FAX)

PROJECT TITLE:
RONNYS CARWASH OF CANTONMENT
2429 S HIGHWAY 29
CANTONMENT, FLORIDA
ESCAMBIA COUNTY

SHEET TITLE:
MSE RETAINING WALL DETAILS

DATE: 03-11-22

SCALE: N.T.S.

SHEET NUMBER:

C10
SHEET 11 OF 15

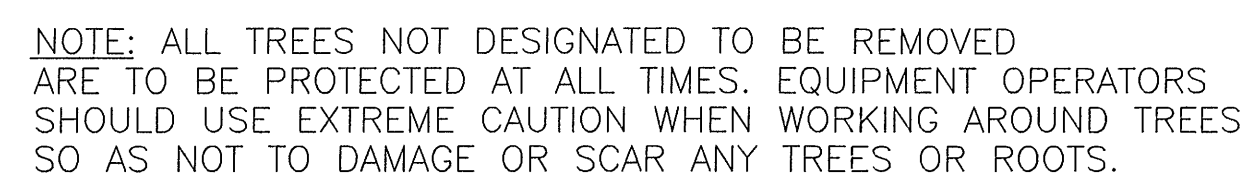
Gregory Allen Campbell
4-2-22

NO. REVISIONS BY DATE

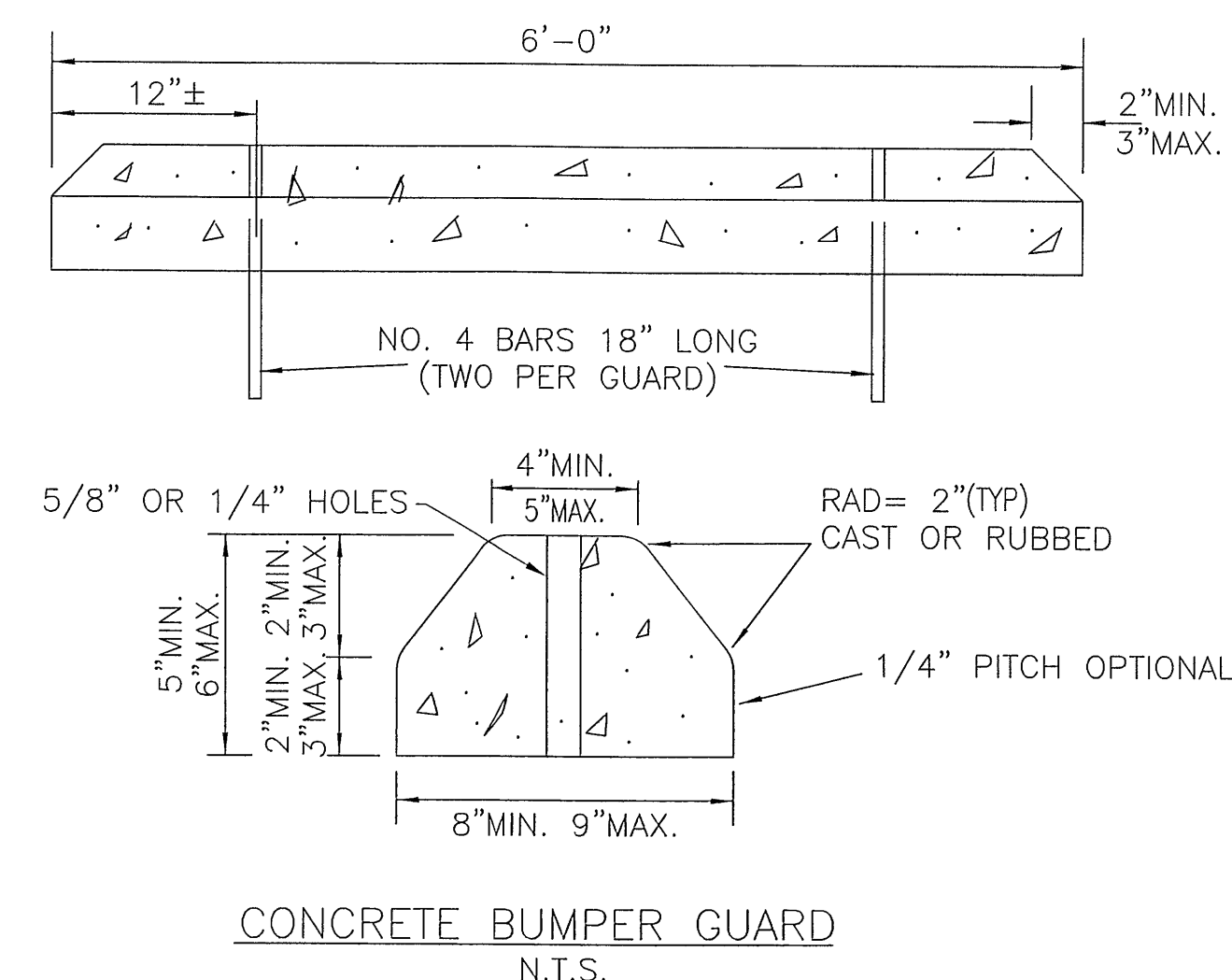
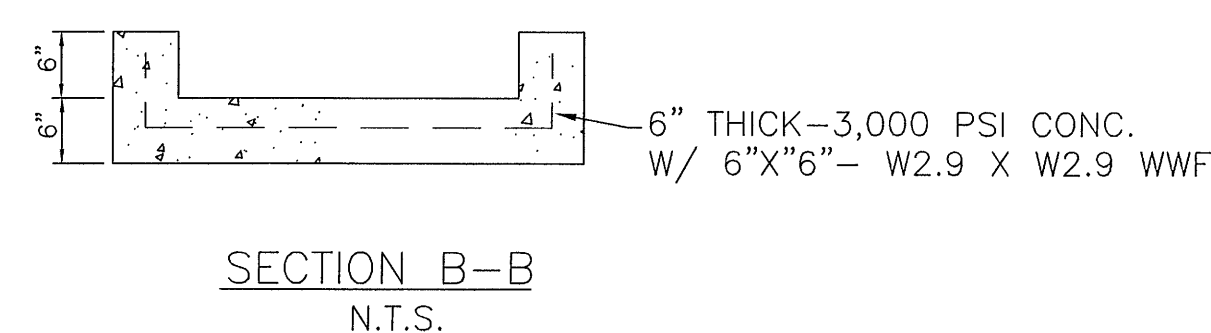
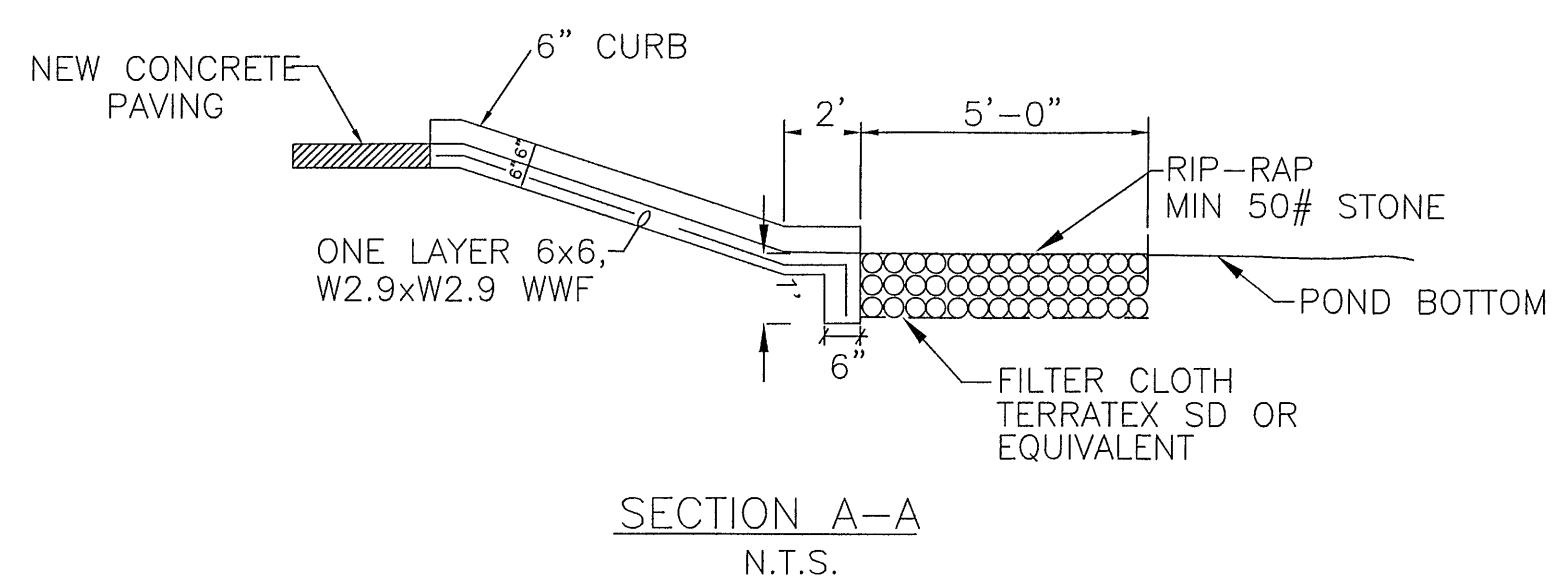
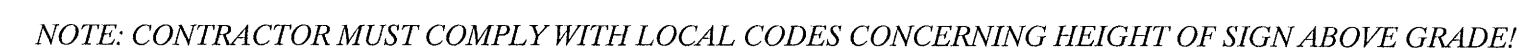


Diagram illustrating a 3D perspective view of a road surface with 12" wide blue striping. The striping pattern consists of a 4" wide blue stripe, a 24" wide white space, and another 4" wide blue stripe. The stripes are spaced at a 30° angle to the road surface.

HC RAMP STRIPING DETAIL
N.T.S.

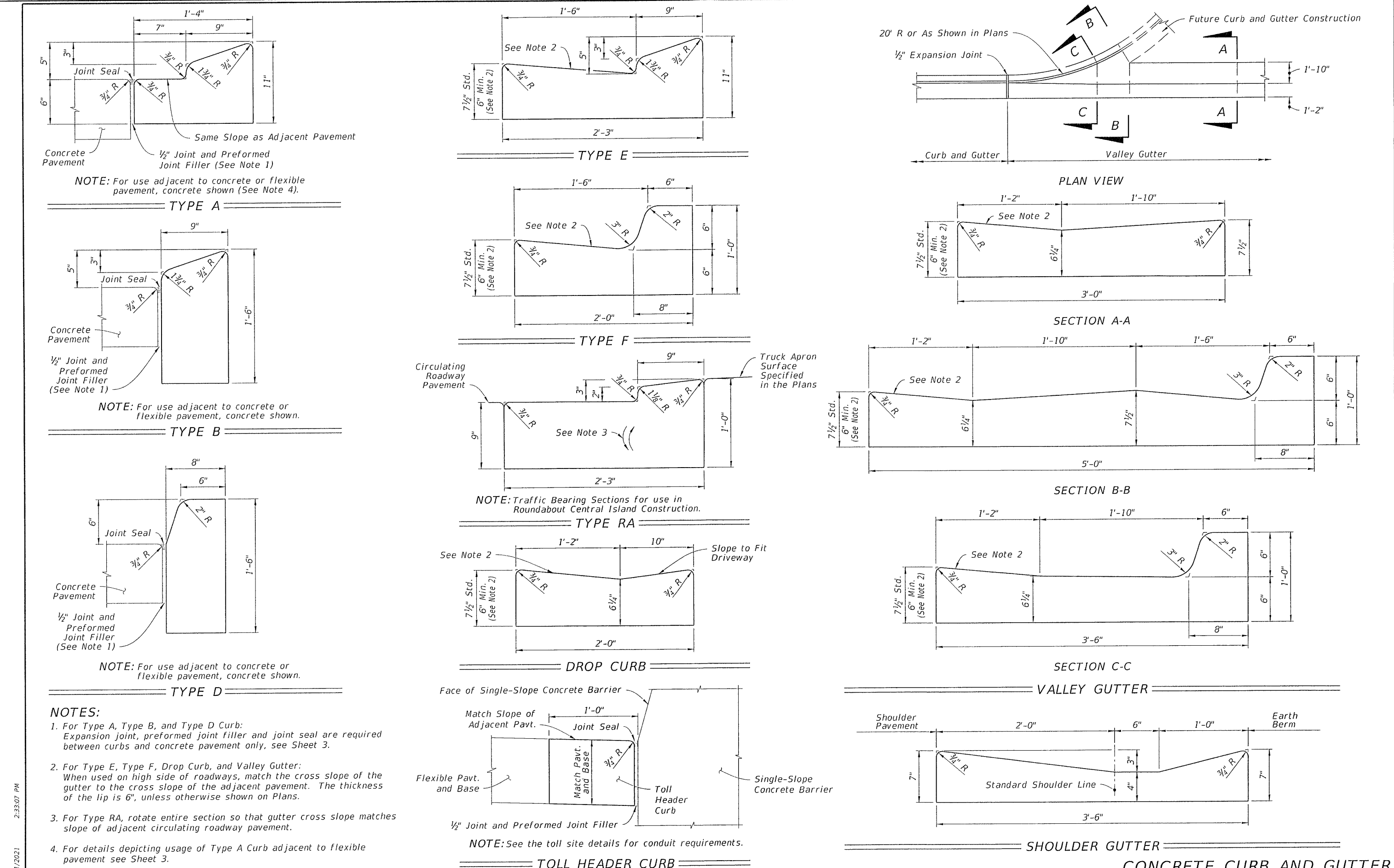


TREE PROTECTION DETAIL
N.T.S.

[illegible]

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LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/18				430-022	2 of 7

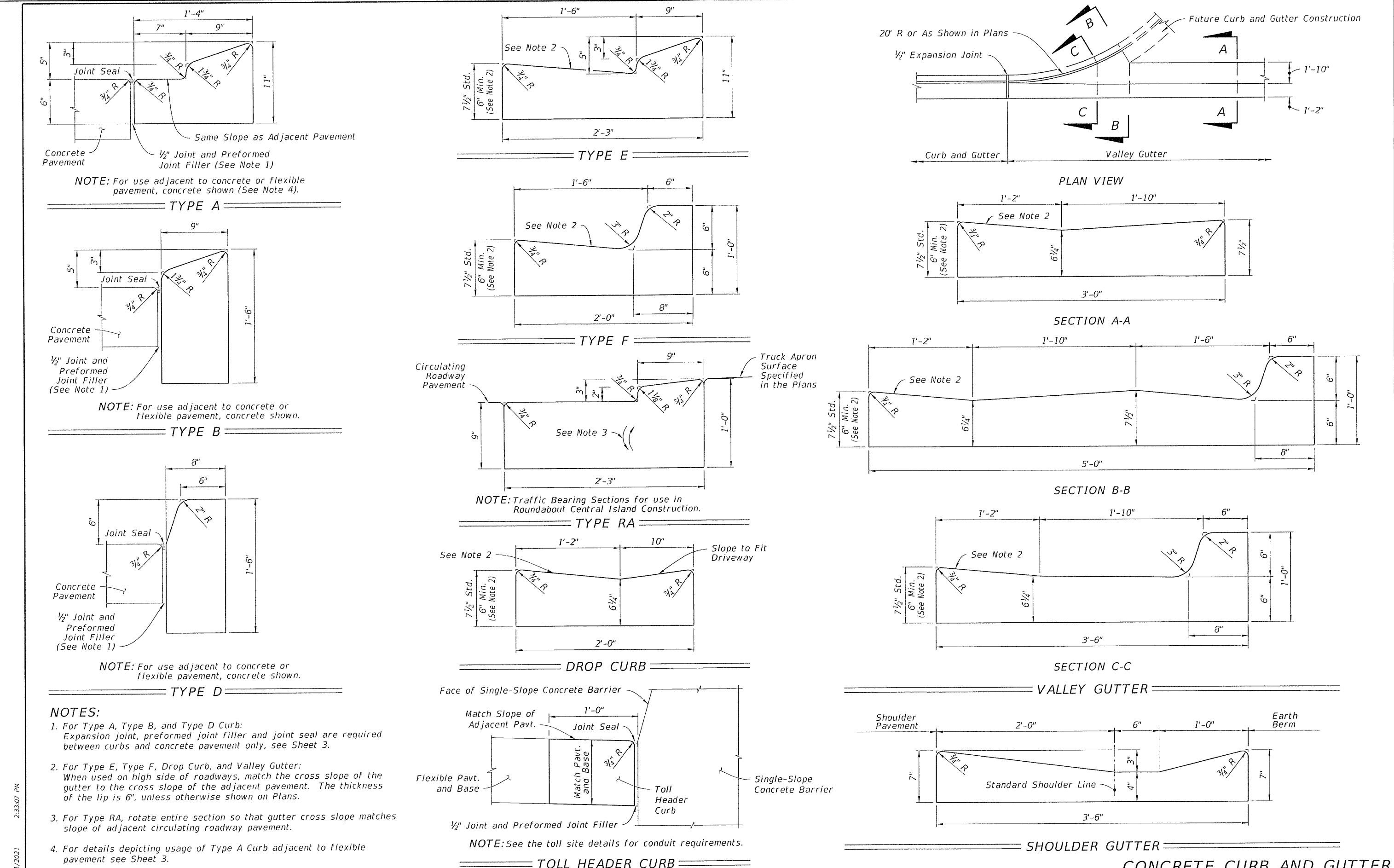


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LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/21				520-001	2 of 3

9/27/2021 1:04:23 PM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/18				430-022	2 of 7



9/27/2021 2:00:07 PM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/21				520-001	2 of 3

9/27/2021 1:24:57 PM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/19				430-022	3 of 7



9/27/2021 2:00:07 PM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/19				430-022	3 of 7

9/27/2021 1:24:57 PM

LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
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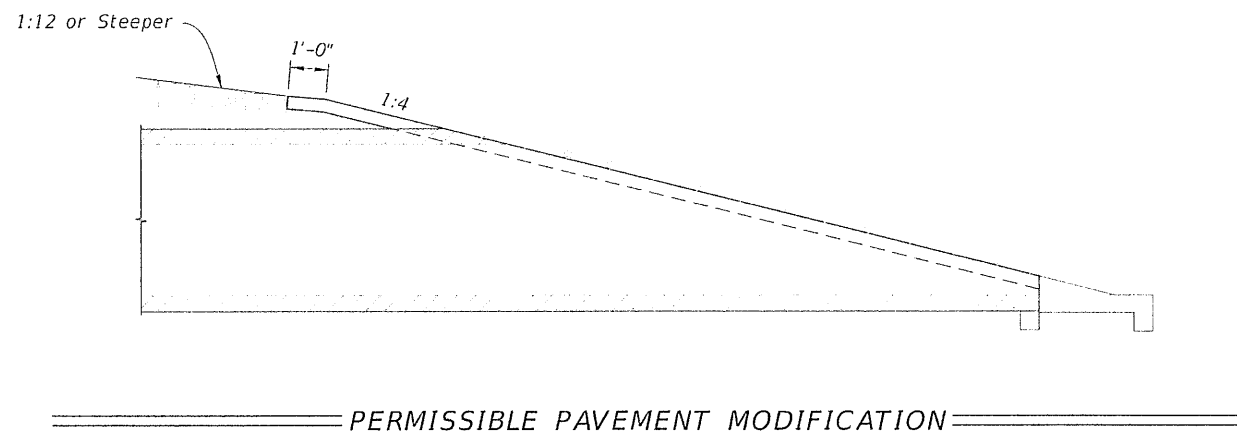


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LAST REVISION	DESCRIPTION:	FDOT	FY 2022-23 STANDARD PLANS	INDEX	SHEET
11/01/19				430-022	3 of 7

SINGLE AND MULTIPLE CONCRETE PIPE DIMENSIONS AND QUANTITIES																											
Pipe	Dia.	Rise	Span	M												GRADE SIZES				3" CONC. SLAB (CY)				SODDING (SY)			
				X	A	B	C	E	F	G	H	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	N	STANDARD WEIGHT PIPE	EXTRA STRONG PIPE	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe	
Round Concrete	15"	2'-2"	2'-2"	4.09	6.36	4.03	6	1.22	4.0	4.63	7.71	9.79	12.37	15.19	0.76	1.16	1.54	1.94	8	10	11	12					
	18"	2'-10"	2'-10"	2.36	5.12	7.48	5.03	9	1.41	4.0	4.92	7.75	10.58	13.42	16.21	0.85	1.28	1.71	2.17	9	10	12	13				
	24"	3'-5"	2'-5"	7.18	9.71	7.03	11	1.73	4.0	5.50	8.92	12.33	15.75	19.25	22.8	1.02	1.58	2.15	2.75	10	12	13	15				
	30"	4'-2"	2'-10"	9.25	11.95	9.03	13	2.00	4.0	6.06	10.33	14.56	18.83	23.19	27.6	1.23	1.98	2.74	3.50	12	14	15	17				
	36"	5'-1"	2'-8"	11.31	14.18	11.03	15	2.24	4.0	6.67	11.75	16.83	21.92	27.32	32.8	1.40	2.38	3.33	4.24	13	15	17	20				
	42"	6'-0"	3'-0"	13.37	16.42	13.07	17	2.45	4.0	7.25	13.25	19.25	25.25	31.38	37.6	1.60	2.83	4.04	5.26	14	17	19	22				
	48"	6'-9"	3'-2"	15.43	18.63	15.03	19	2.63	4.0	7.83	14.58	21.33	28.08	34.42	40.9	1.81	3.06	4.70	6.14	15	18	21	24				
	54"	7'-8"	3'-3"	17.49	20.88	17.03	21	2.83	4.0	8.42	16.08	23.75	31.42	39.16	46.8	2.03	3.78	5.54	7.28	17	20	23	27				
	60"	8'-6"	3'-5"	19.55	23.11	19.03	23	3.00	4.0	9.00	17.58	26.00	34.20	42.50	50.9	2.28	4.36	6.43	8.50	18	22	25	29				
	66"	10'-0"	3'-7"	21.61	25.67	21.53	25	3.17	4.0	9.58	19.10	28.50	37.50	46.50	55.5	2.53	4.88	7.15	9.42	19	23	27	31				
Elliptical Concrete	12"	18"	2'-10"	2.36	5.12	7.48	5.03	9	1.41	4.0	4.92	7.75	10.58	13.42	16.21	0.85	1.28	1.71	2.17	9	10	12	13				
	14"	23"	3'-4"	2.44	3.75	6.10	3.70	6	1.90	2.3	5.38	8.71	12.04	15.38	18.7	0.76	1.19	1.63	2.05	9	10	12	13				
	15"	30"	4'-0"	2.62	5.47	8.09	5.36	6	2.37	2.6	6.04	10.04	14.04	18.04	22.0	0.95	1.52	2.09	2.65	10	12	13	15				
	18"	38"	5'-0"	2.79	7.18	9.97	7.03	10	2.85	3.0	6.79	11.79	16.79	21.79	26.7	1.18	1.95	2.74	3.53	11	13	15	18				
	24"	45"	5'-11"	3.05	8.90	11.93	8.70	12	3.19	3.3	7.50	13.42	19.33	25.25	31.18	1.41	2.42	3.44	4.45	12	15	18	20				
	30"	53"	7'-0"	3.22	10.62	13.64	10.36	13	3.57	3.6	8.25	15.25	22.25	29.25	35.2	1.63	2.92	4.22	5.52	13	17	20	23				
	36"	60"	7'-10"	3.39	11.99	15.38	11.70	15	3.95	3.3	8.92	16.75	24.58	32.42	39.3	1.83	3.36	4.89	6.41	14	18	21	25				
	42"	68"	8'-11"	3.56	13.21	17.27	13.36	17	4.28	3.6	9.67	18.58	27.50	36.42	44.3	2.09	3.85	5.80	7.65	16	20	23	27				
	48"	75"	9'-11"	3.73	15.43	19.16	15.03	19	4.58	4.0	10.42	20.33	30.25	40.17	49.1	2.37	4.54	6.73	8.92	17	21	25	30				
	54"	83"	10'-8"	3.91	17.15	21.06	16.70	20	4.77	3.3	11.08	21.75	32.42	43.08	52.8	2.61	5.09	7.56	10.03	18	23	27	32				
58"	91"	11'-8"	4.08	18.87	22.93	18.36	22	5.01	3.6	11.82	23.50	35.17	46.83	56.9	2.91	5.77	8.64	11.50	19	24	29	35					

0.642' >0.40' 0.625' Dimensions permitted to allow use of 8' standard pipe lengths. 0.1010' Dimensions permitted to allow use of 12' standard pipe lengths.



CONCRETE PIPE DIMENSIONS AND QUANTITIES AND PERMISSIBLE PAVEMENT MODIFICATION

ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: RY6515
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (OFC)
850-477-1176 (FAX)
GREGORY ALLEN CAMPBELL, P.E.
FL PE LICENSE #: 38572

PROJECT TITLE:
RONNYS CARWASH OF CANTONMENT
2429 S HIGHWAY 29
CANTONMENT, FLORIDA
ESCAMBIA COUNTY

SHEET TITLE:
CONSTRUCTION DETAILS

DATE: 03-11-22

SCALE: 1"=20'

SHEET NUMBER:

C13

SHEET 14 OF 15

Signature
03-2-22

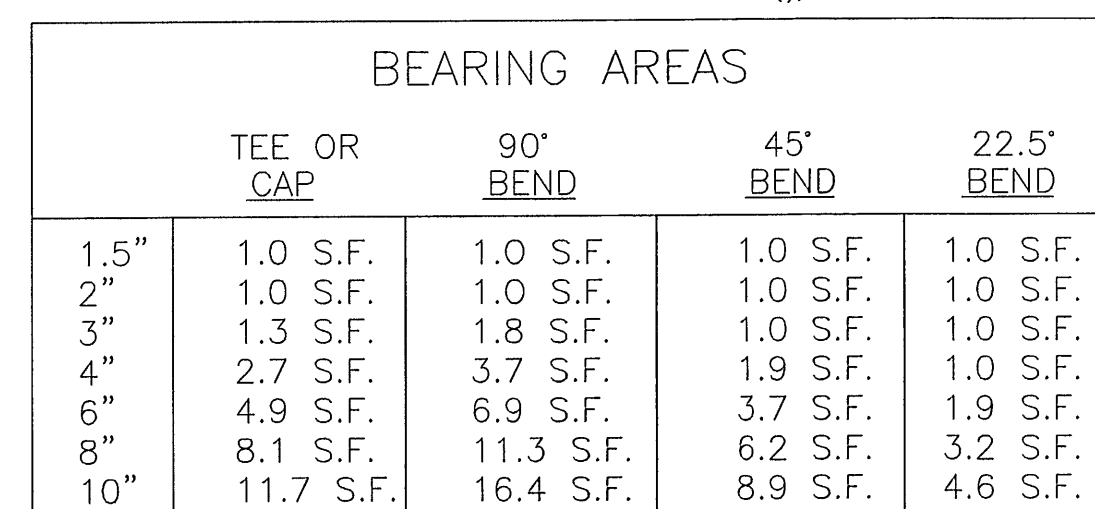
NO.	REVISIONS	BY	DATE
1	ESCAMBIA CO COMMENTS DATED 08-05-21	GAC	08-05-21



NOTES:

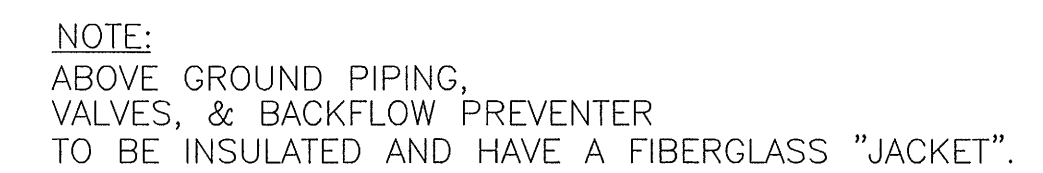
CENTERING A 20' SECTION OF SANITARY SEWER/
WATER MAIN PIPE AT CROSSING MAY BE USED IN
LIEU OF ENCASEMENT.

POTABLE WATER
IS TO BE ROUTED ABOVE SANITARY SEWER
COLLECTION MAIN IF MINIMUM COVERAGE
SPECIFIED CAN BE OBTAINED. IF SAID MINIMUM
COVERAGE IS NOT POSSIBLE, POTABLE WATER IS
TO BE ROUTED BELOW SANITARY SEWER LINE.

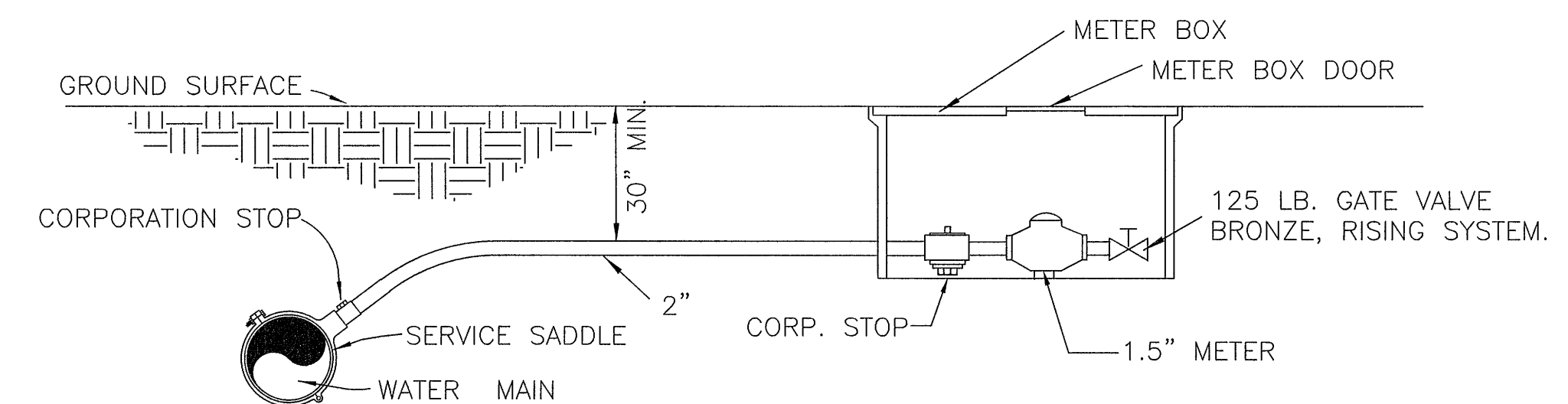


NOTE: MINIMUM THICKNESS OF THRUST BLOCKS TO BE 12 INCHES WITH AREA AS ABOVE.

N.T.S. THRUST BLOCK DETAILS

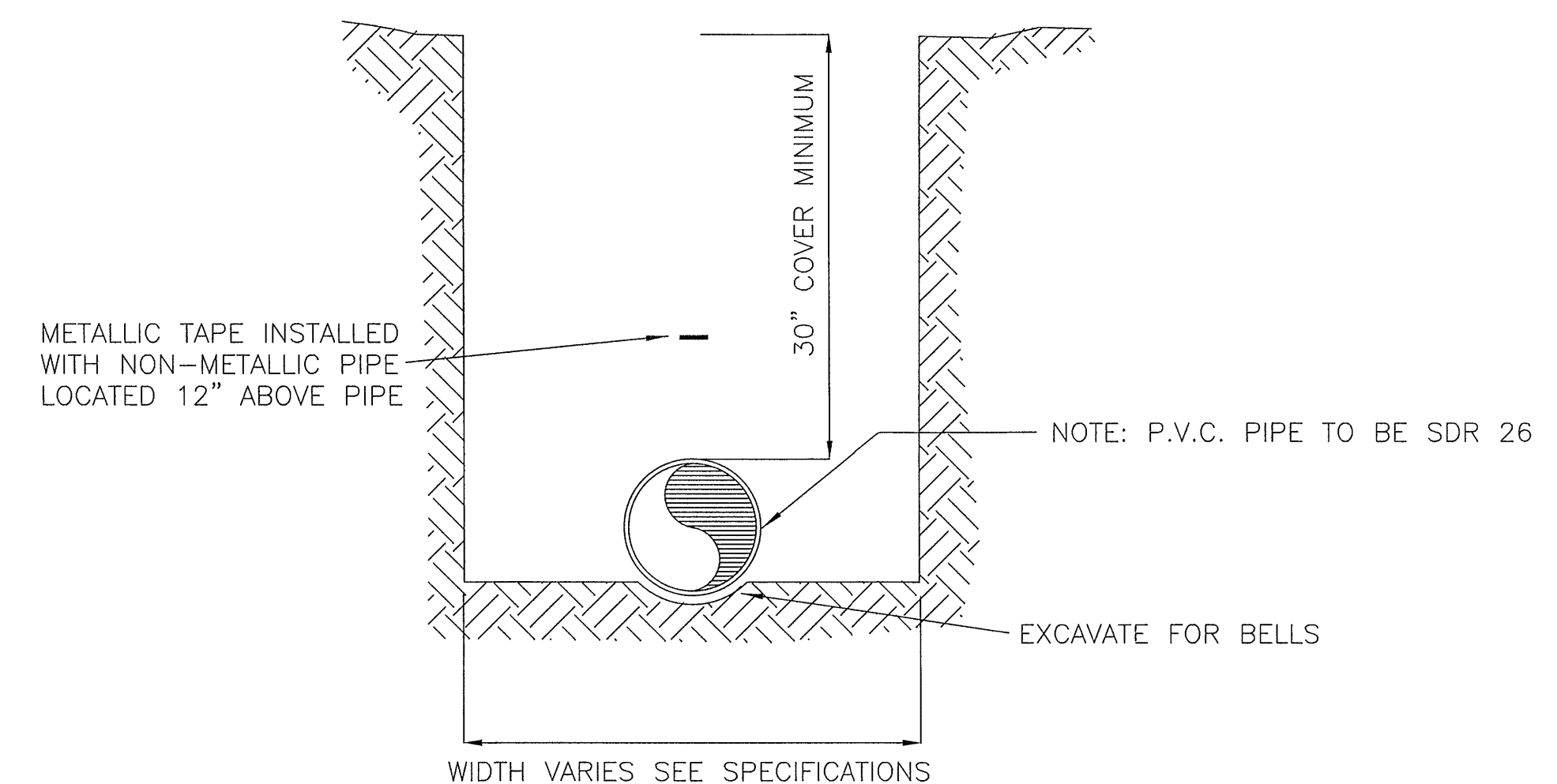


2" RPZ BACKFLOW PREVENTER DETAIL
N.T.S.



WATER SERVICE CONNECTION
N.T.S.

NOTE: CONTRACTOR SHALL COORDINATE WITH COTTAGE HILL WATER WORKS INC.
FOR REQUIRED MAKE AND MODEL OF 3" WATER METER.



TYPICAL PIPE INSTALLATION DETAIL
N.T.S.

ENVIRONMENTAL ENGINEERING SERVICES
FIRM REGISTRATION #: R76515
2120 MARIA CIRCLE
PENSACOLA, FLORIDA 32514
850-982-8606 (FAX)
850-477-1176 (FAX)
GREGORY ALLEN CAMPBELL, P.E.
FL PE LICENSE #: 38572

PROJECT TITLE:
RONNYS CARWASH OF CANTONMENT

2429 S HIGHWAY 87
CANTONMENT, FLORIDA
ESCAMBIA COUNTY

SHEET TITLE:

UTILITY DETAILS

DATE: 03-11-22

SCALE: 1"=20'

SHEET NUMBER:

C14

SHEET 15 OF 15

4-2-22