

PROJECT CONTACTS				
CURRENT OWNER/MASTER DEVELOPER	DEVELOPER	CIVIL ENGINEER	ARCHITECT	LAND SURVEYOR
FERBER CORPORATION MR. WILL ANDERSON 100 SECOND AVENUE SOUTH SUITE 201-N ST. PETERSBURG, FLORIDA 33701 PHONE: (727) 490-1779 WANDERSON@FERBERCOMPANY.COM	PANDA EXPRESS, INC. MR. JOE CELENTO 1683 WALNUT GROVE AVE. ROSEMEAD, CALIFORNIA 91770 PHONE: (626) 799-9898 CELL: (912) 272-4811 JOE.CELENTO@PANDARG.COM	INGENIUM ENTERPRISES, INC. MR. JEREMY PETTIT, P.E. 14499 NORTH DALE MABRY HIGHWAY SUITE 250 TAMPA, FLORIDA 33618 PHONE: (813) 367-0084 JPETTIT@INGENIUMTEAM.COM	CUHACI & PETERSON MS. ADRIANA LOVERA 2800 MAITLAND CENTER PARKWAY SUITE 200 MAITLAND, FL 32751 PHONE: (407) 661-9100 ADRIANA-LOVERA@C-P.COM	TO BE DETERMINED
MEP	SITE LIGHTING	STRUCTURAL	MUNICIPAL SEWER & WATER AGENCY	ELECTRIC
CUHACI & PETERSON MS. ADRIANA LOVERA 2800 MAITLAND CENTER PARKWAY SUITE 200 MAITLAND, FL 32751 PHONE: (407) 661-9100 ADRIANA-LOVERA@C-P.COM	VILLA LIGHTING SUPPLY MR. RYAN ZINSELMIEIER 2929 CHOUTEAU AVENUE ST. LOUIS, MISSOURI 63103 PHONE: (314) 633-0423 RYAN.ZINSELMIEIER@VILLALIGHTING.COM	BRITT, PETERS & ASSOCIATES MS. KIM FAIST, P.E. 101 FALLS PARK DRIVE SUITE 601 GREENVILLE, SOUTH CAROLINA 29601 PHONE: (864) 271-8869 KFAIST@BRITTPETERS.COM	PASCO COUNTY UTILITIES MR. MARK GUTTMAN 19420 CENTRAL BLVD. LAND O' LAKES, FLORIDA 34637 PHONE: (813) 255-6189 EXT. 9195 MGUTTMAN@PASCOCOUNTYFL.NET	DUKE ENERGY MR. RICH MARSLGIO PHONE: (727) 281-1686 RICH.MARSLGIO@DUKE-ENERGY.COM
GAS	TELEPHONE COMPANY	LANDSCAPE ARCHITECT	SIGNAGE	FIRE
TECO GAS MS. BETTY TRUEBLOOD PHONE: (813) 299-7342 BTRUEBLOOD@TECOENERGY.COM	AT&T MR. DINO FARRUGIO PHONE: (954) 249-0558 DF1979@ATT.COM	WAS DESIGN MR. JARED ACY 175 EAST CAPITOL STREET SUITE 500 JACKSON, MISSISSIPPI 39201 PHONE: (601) 790-0781 JACY@WAS-DESIGN.COM	ALLEN INDUSTRIES MR. GEORGE THOMSON 4100 SHERATON COURT GREENSBORO, NORTH CAROLINA 27410 PHONE: (336) 615-8766 GEORGE.THOMSON@ALLENINDUSTRIES.COM	PASCO COUNTY FIRE RESCUE MR. BILL MCGOUGH 8731 CITIZENS DRIVE NEW PORT RICHEY, FLORIDA 34654 WMCGOUGH@PASCOCOUNTYFL.NET

PANDA EXPRESS STANDARD NOTES

1. THE GEOTECHNICAL INVESTIGATION PREPARED BY NAME DATED DATE AND ANY SUBSEQUENT ADDENDUMS IS CONSIDERED PART OF THE CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE REPORT'S RECOMMENDATIONS AND FINDINGS WITH THE OWNER, ENGINEER AND ARCHITECT PRIOR TO CONSTRUCTION. IMPLEMENTATION OF THE REPORT'S RECOMMENDATIONS MAY REQUIRE THE CONTRACTOR TO PERFORM ADDITIONAL WORK NOT SHOWN ON THE CIVIL PLANS INCLUDING BUT NOT LIMITED TO EXCAVATION, REMEDIATION, DEWATERING, COMPACTION ETC.
2. CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.
3. CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.
4. CONTRACTOR SHALL ENSURE 100% COVERAGE OF ALL LANDSCAPED AREAS WITHIN LIMITS OF WORK, INCLUDING POTENTIAL OFFSITE AREAS. COVERAGE SHALL INCLUDE BOTH LANDSCAPING AND IRRIGATION.

PASCO COUNTY STANDARD FIRE PROTECTION NOTES

1. ALL PROJECTS MUST COMPLY WITH PASCO COUNTY FIRE HYDRANT ORDINANCE NO. 46-51.
2. FIRE HYDRANTS SHALL BE INSTALLED AND IN SERVICE PRIOR TO THE ACCUMULATION OF COMBUSTIBLES.
3. PER THE NATIONAL FIRE PROTECTION ASSOCIATION, NFPA-1 16.4.3.13: WHERE UNDERGROUND WATER MAINS AND HYDRANTS ARE TO BE PROVIDED, THEY SHALL BE INSTALLED, COMPLETED AND IN SERVICE PRIOR TO CONSTRUCTION WORK.
4. PER NFPA-1, 18.3.4.1: CLEARANCE OF 7'5" IN FRONT OF AND TO THE SIDES OF THE FIRE HYDRANT WITH 4 FOOT CLEARANCE TO THE REAR MUST BE MAINTAINED AT ALL TIMES.
5. GATED ENTRIES REQUIRE A SIREN OPERATION SYSTEM OR A 3M OPTICOM SYSTEM FOR EMERGENCY ACCESS.

CONDITION OF APPROVAL #73

PRELIMINARY DEVELOPMENT PLAN/PRELIMINARY SITE PLAN SUBMITTALS SHALL INCLUDE A DETAILED BREAKDOWN OF THE INDIVIDUAL PLAN APPROVALS, INCLUDING THE PLAN NAME AND INCREMENT OR PHASE DESIGNATION AS IT RELATES TO THE MASTER DEVELOPMENT PLAN, ACREAGE OF THE SITE, TOTAL NUMBER OF UNITS, OR GROSS FLOOR AREA RATIO OF COMMERCIAL SPACE WHICH HAVE RECEIVED PRELIMINARY DEVELOPMENT PLAN/PRELIMINARY SITE PLAN APPROVAL, CONSTRUCTION PLAN/CONSTRUCTION SITE PLAN APPROVAL, AND/OR RECORD PLAT APPROVAL.

THIS PROJECT CANNOT BE PROPERLY REVIEWED UNTIL THE PDP AND PLAT ARE APPROVED.

FDOT ROADWAY INFO

ROAD NAME: STATE ROAD 54

SPEED LIMIT: 60 MPH

WIDTH OF RIGHT-OF-WAY: 100'

NUMBER OF LANES: 6 LANES (DIVIDED WITH GRASS MEDIAN)

DISTANCE TO THE NEAREST INTERSECTION: APPROXIMATELY 935' TO BALLANTRAE BLVD. (WEST OF PROPOSED SITE), APPROXIMATELY 5,280' (1.0 MILE) FROM SUNLAKE BLVD. (WEST OF PROPOSED SITE).



D8135 SKYBROOKE BOULEVARD & STATE ROAD 54, LUTZ, FLORIDA 33558 PASCO COUNTY

PREPARED BY:



PREPARED FOR:

PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770
PHONE: 626.799.9898
FAX: 626.372.8288

SITE INFORMATION

JURISDICTION:
PASCO COUNTY

ZONING:
MASTER PLANNED UNIT DEVELOPMENT (MPUD)

FUTURE LAND USE:
PLANNED DEVELOPMENT (PD)

PARCEL NUMBER:
29 26 18 0000 00400 0070 (BASED ON PASCO MAPPER)

REQUIRED BUILDING SETBACKS:
FRONT: 60'
SIDE: 7.5'
REAR: 5'

REQUIRED PARKING:
19 SPACES - ONE (1) SPACE FOR EVERY 150 SF OF GROSS FLOOR AREA. ASSUMING A 2,381 SF BUILDING AND A 400 SF OUTDOOR DINING SPACE IS PROVIDED, THE MINIMUM PARKING REQUIRED IS 19 SPACES.

PROPOSED PARKING:
9' X 20' (REGULAR) = 27
8' X 18' (COMPACT) = 10
12' X 20' (HC) = 2
TOTAL = 39

PROVIDED LANDSCAPE BUFFER:
FRONT: 20' TYPE D BUFFER (NORTH)
REAR: 10' TYPE A BUFFER (SOUTH)
SIDE: 5' TYPE A BUFFER (EAST AND WEST)

DRIVE AISLE: 24'

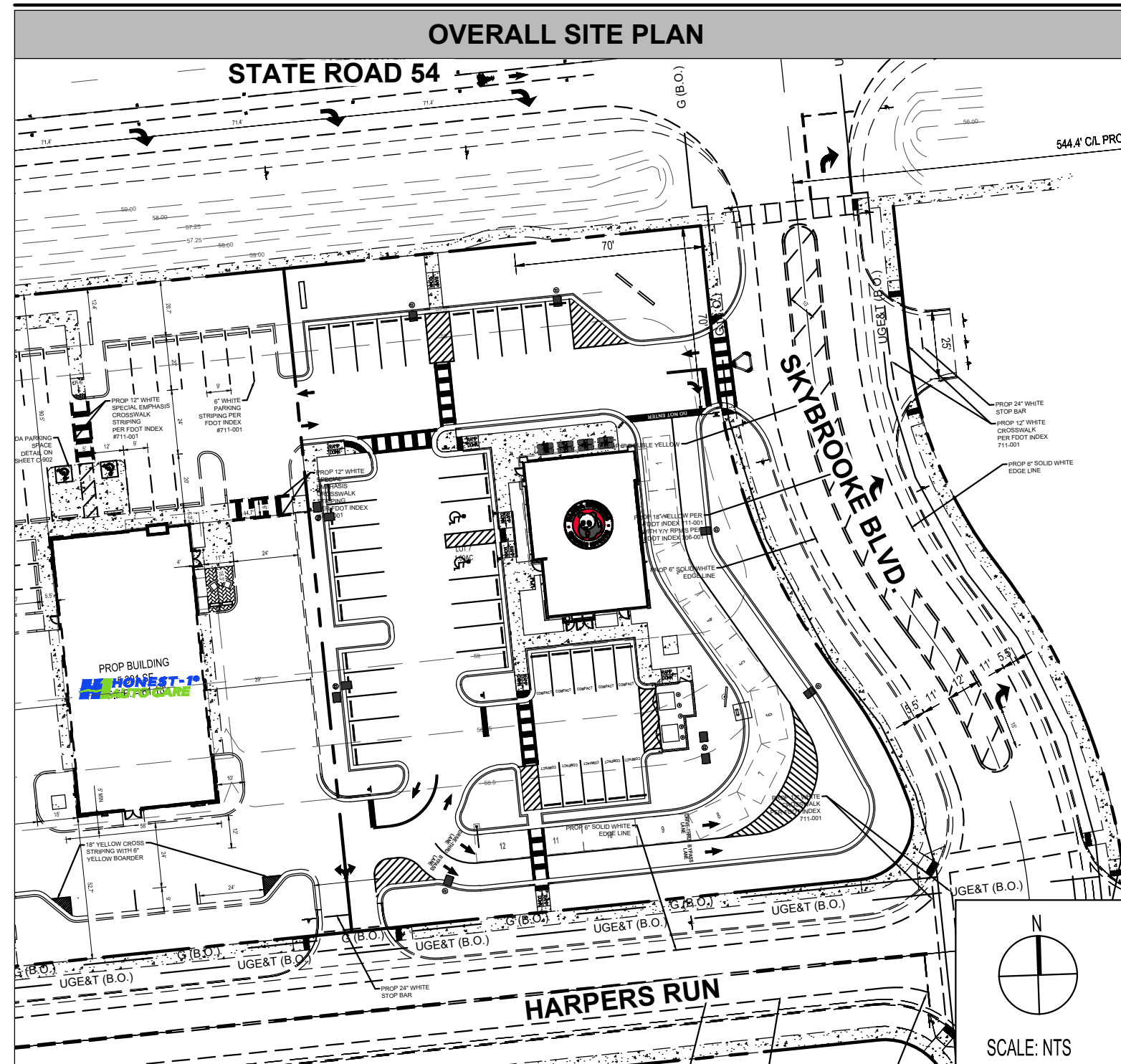
SITE AREA CALCULATIONS:
SITE: ±1.00 AC.
PERVIOUS AREA: ±.27 AC.
IMPERVIOUS AREA: ±.73 AC.
DISTURBED AREA: ±1.20 AC.

FLOOD HAZARD:
A PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12101C0384F DATED 08/26/2014. HOWEVER, PLANS PROVIDED BY BOHLER ENGINEERING SHOW THAT ALL WETLANDS AND FLOODPLAINS WILL BE FILLED IN. PLEASE SEE PLANS PROVIDED BY BOHLER ENGINEERING AND APPROVED BY COUNTY ON 05/08/2020.

EXISTING INFORMATION:
ALL EXISTING INFORMATION SHOWN HEREIN IS BASED OFF OF DESIGN FILES PROVIDED BY BOHLER ENGINEERING, DATED 11/18/2020. ALL ELEVATIONS SHOWN HEREON ARE BASED OFF OF THE ABOVE REFERENCED DESIGN FILES, WHICH ARE BASED ON NATIONAL GEODETIC SURVEY BENCHMARK D669, SAID POINT BEING A SURVEY DISC STAMPED "D669 2006" SET IN TOP OF A CONCRETE MONUMENT AND HAVING AN ELEVATION OF 60.39 FEET, PURSUANT TO THE NAVD88.

SITE LIGHTING:
PHOTOMETRICS DESIGNED BY VILLA LIGHTING. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN, SHEETS SL1.0, AND OWNER PRIOR TO CONSTRUCTION.

FLOOR AREA RATIO CALCULATION:
TOTAL BUILDING AREA = 2,381 SF = 0.055 AC.
DEVELOPABLE ACREAGE = 1.00 AC. (1.00 LOT AREA - 0.00 WETLANDS)
FLOOR AREA RATIO = 0.055.



SHEET INDEX

NO.	TITLE	ISSUE 01 - ISSUE FOR PERMIT 12/17/2020	ISSUE 02 - PRELIMINARY SITE PLAN SUBMITTAL 01/12/2021	ISSUE 03 - RE-SUBMIT FOR 04/05/2021	ISSUE 04 - ISSUE FOR BID AND FOR PERMIT 06/04/2021				
C01.0	COVER SHEET	●	●	●	●				
C01.1	GENERAL NOTES	●	●	●	●				
C02.0	DEVELOPMENT PLAN	●	●	●	●				
C02.1	EXISTING CONDITIONS PLAN	●	●	●	●				
C02.2	DEMOLITION PLAN	●	●	●	●				
C02.3	AERIAL MAP			●	●				
C03.0	SITE PLAN	●	●	●	●				
C03.1	STAKING PLAN	●	●	●	●				
C03.2	HARDSCAPE DETAILS I	●	●	●	●				
C03.3	HARDSCAPE DETAILS II	●	●	●	●				
C03.4	VEHICLE TRACKING DETAILS			●	●				
C04.0	UTILITY PLAN	●	●	●	●				
C04.1	BUILDING AREA DETAIL PLAN	●	●	●	●				
C04.2	UTILITY DETAILS I	●	●	●	●				
C04.3	UTILITY DETAIL II	●	●	●	●				
C04.4	UTILITY DETAIL III	●	●	●	●				
C04.5	PIPE PROFILE I	●	●	●	●				
C04.6	PIPE PROFILE II	●	●	●	●				
C04.7	FIRE FLOW AND PRESSURE TEST			●	●				
C05.0	GRADING & DRAINAGE PHASE	●	●	●	●				
C05.1	BUILDING DRAINAGE DETAIL PLAN	●	●	●	●				
C06.1	ESPC PLAN- CLEARING PHASE	●	●	●	●				
C06.2	ESPC PLAN- GRADING PHASE	●	●	●	●				
C06.3	ESPC PLAN- FINAL PHASE	●	●	●	●				
C06.4	ESPC DETAILS I	●	●	●	●				
C06.5	ESPC DETAILS II	●	●	●	●				
C06.6	ESPC DETAILS III	●	●	●	●				
C06.7	ESPC DETAILS IV	●	●	●	●				
C06.8	ESPC DETAILS V	●	●	●	●				
L01.0	LANDSCAPE PLAN	●	●	●	●				
L01.1	LANDSCAPE DETAILS	●	●	●	●				
I01.0	IRRIGATION PLAN			●	●				
I01.1	IRRIGATION DETAILS			●	●				
SL01.0	PHOTOMETRIC PLAN	●	●	●	●				

JEREMY PETTIT, STATE OF FLORIDA,
PROFESSIONAL ENGINEER
LICENSE NO. 88046

THIS ITEM HAS BEEN ELECTRONICALLY
SIGNED AND SEALED BY JEREMY PETTIT
ON THE DATE INDICATED HERE USING A
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THE SHA AUTHENTICATION CODE MUST BE
VERIFIED ON ANY ELECTRONIC COPIES.



PANDA EXPRESS, INC.

1683 WALNUT GROVE AVE.
ROSEMEAD, CALIFORNIA 91770

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REVISIONS:

C1 1ST COUNTY COMMENTS 04/05/2021
C2 2ND COUNTY COMMENTS 06/04/2021

ISSUE DATE:

ALT. STANDARDS 12/17/2020
PRELIMINARY SITE PLAN 01/12/2021
COUNTY COMMENTS 04/05/2021
ISSUE FOR BID 06/04/2021

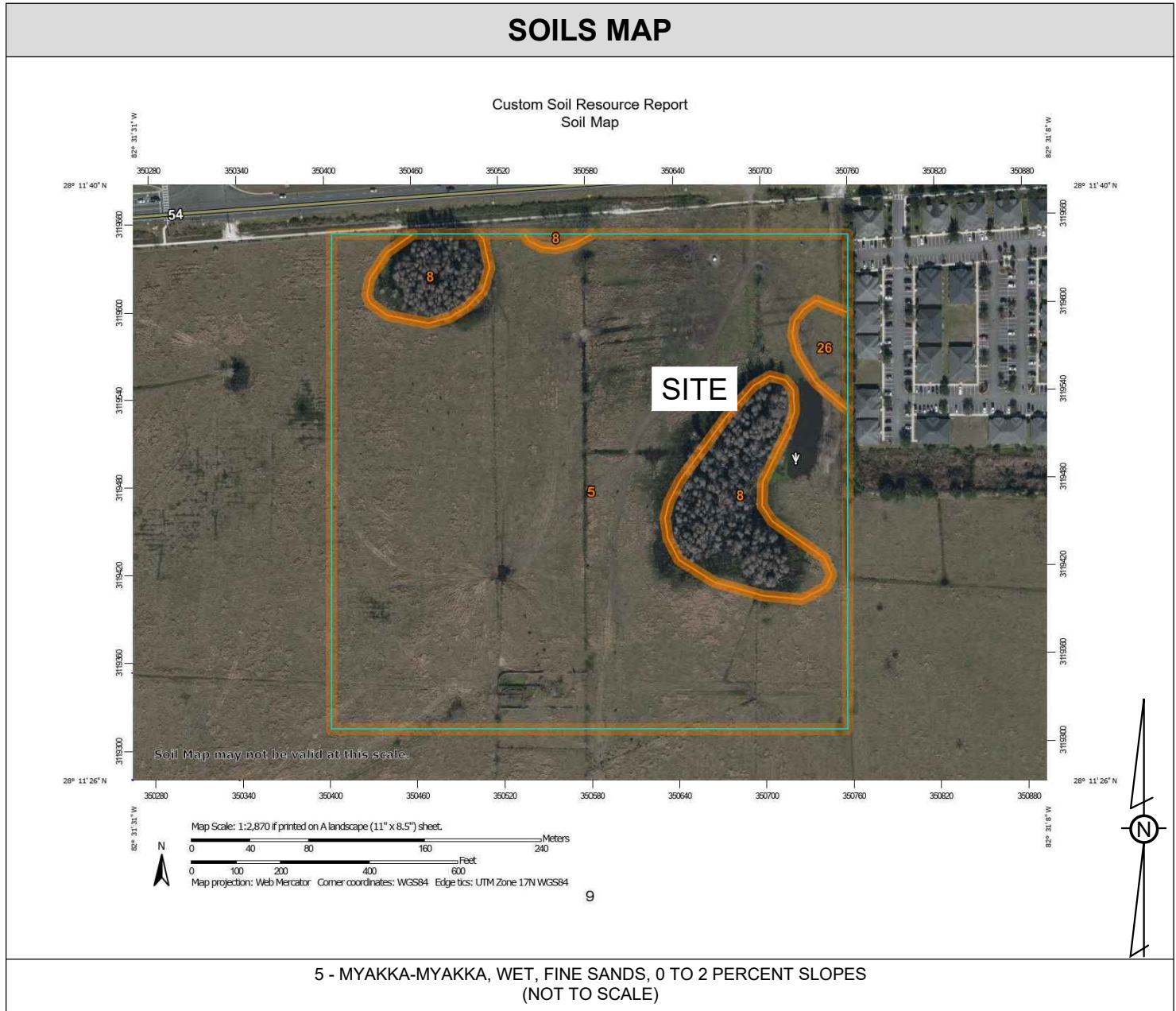
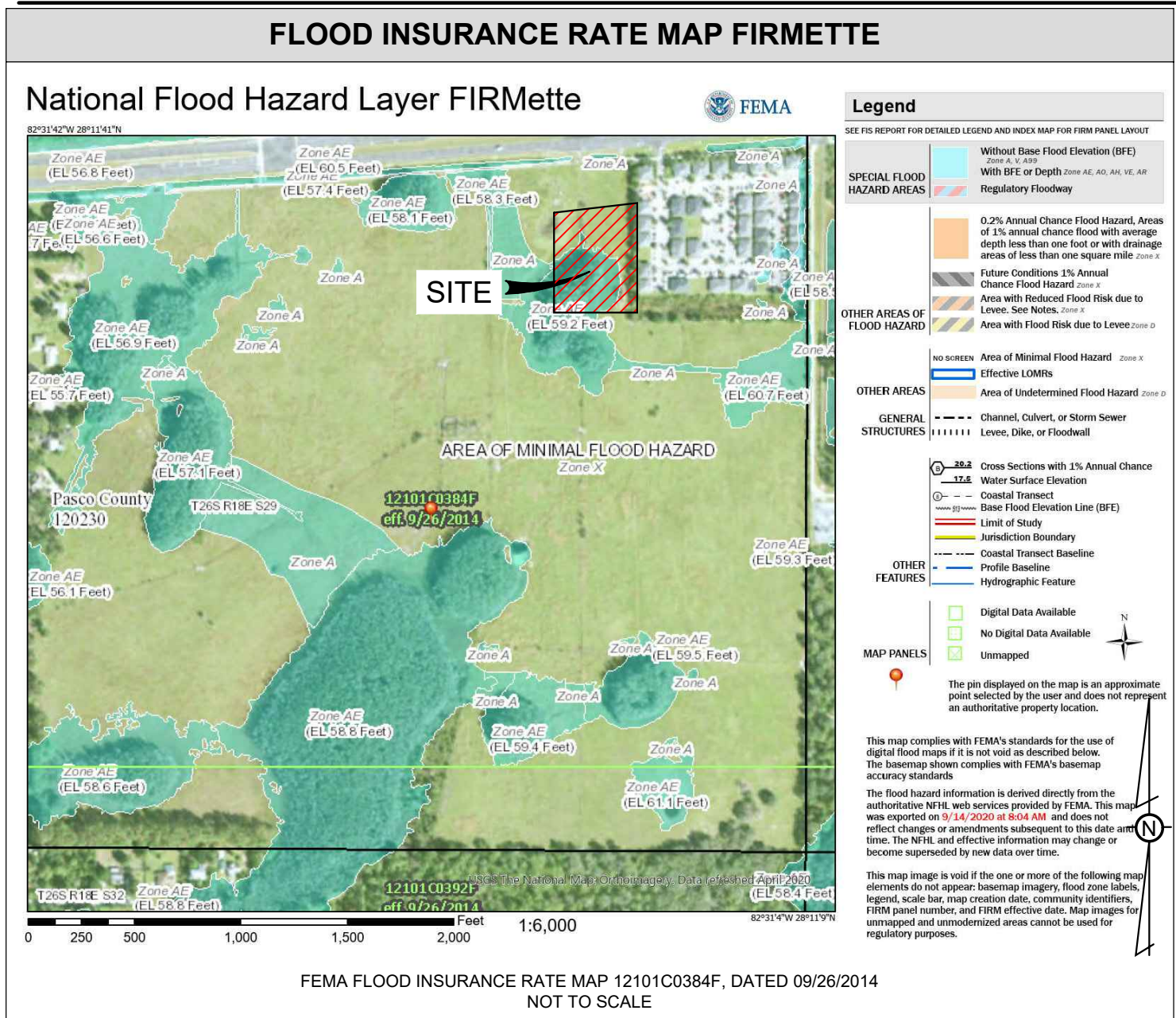
DRAWN BY: INGENIUM

PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



COVER SHEET
C01.0

TRUE WARM & WELCOME 2300



DEFINITIONS

- "ISSUED FOR PERMITTING"**
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR PRICING, BID, OR CONSTRUCTION.
- "NOT ISSUED FOR CONSTRUCTION"**
DRAWINGS ARE INTENDED FOR SUBMITTAL TO THE JURISDICTION(S) HAVING AUTHORITY FOR REVIEW, COMMENT, AND/OR APPROVAL. DRAWINGS ARE NOT INTENDED FOR CONSTRUCTION.
- "ISSUED FOR CONSTRUCTION"**
DRAWINGS ARE INTENDED FOR PRICING, BID, AND/OR CONSTRUCTION.
- "RIM"**
1. THROAT OR GRATE ELEVATION FOR CURB INLETS.
2. TOP OF STRUCTURE FOR JUNCTION BOXES/OCS.
3. TOP OF STRUCTURE FOR SANITARY MANHOLES AND CLEANOUTS.
- "MUTCD"**
THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION, AND TO INCLUDE REVISIONS 1 AND 2 FROM MAY 2012.
- "FDOT"**
THE FLORIDA DEPARTMENT OF TRANSPORTATION, ALL REFERENCED DETAILS AND INDICES ARE FROM THE FY 2021-2022.

ABBREVIATIONS

- ASPH = ASPHALT
BC = BOTTOM OF CURB
BFP = BACKFLOW PREVENTER
BW = BOTTOM OF WALL
C&G = CURB AND GUTTER
C.B. = CHORD BEARING
CB = CATCH BASIN
CF = CUBIC FEET
C = CENTERLINE
CMP = CORRUGATED METAL PIPE
Co = GENERAL CLEAN OUT
CONC. = CONCRETE
CW = COLD WATER SUPPLY
CY = CUBIC YARD
D.O.T. = DEPARTMENT OF TRANSPORTATION
DI = DROP INLET
DS = DOWN SLOUT
DIP = DUCTILE IRON PIPE
E = EAST
EL = ELEVATION
EGL = ENERGY GRADE LINE
EXIST. = EXISTING
FDC = FIRE DEPARTMENT CONNECTION
FES = FLARED END SECTION
FFE = FINISH FLOOR ELEVATION
FH = FIRE HYDRANT
GC = GENERAL CONTRACTOR
GSF = GROSS SQUARE FEET
GT = GREASE TRAP
GV = GATE VALVE
HDPE = HIGH DENSITY POLYETHYLENE
HGL = HYDRAULIC GRADE LINE
HW = HOT WATER SUPPLY
I = INTERNAL ANGLE
INV. = INVERT
IRR = IRRIGATION
L = LENGTH OF CURVE
L.C. = LENGTH OF CHORD
LFFE = LOWER FINISH FLOOR ELEVATION
LP = LIGHT POLE/FEATURE
LS = LANDSCAPE
MH = MANHOLE
N = NORTH
PC = POINT OF CURVATURE
PI = POINT OF INTERSECTION
PIV = POST INDICATOR VALVE
PROP = PROPOSED
PT = POINT OF TANGENCY
PVC = POLYVINYL CHLORIDE PIPE
R = RADIUS OF CURVE
RCP = REINFORCED CONCRETE PIPE
RD = ROOF DRAIN
RW = RIGHT-OF-WAY
S = SOUTH
SF = SQUARE FEET
SSE = SANITARY SEWER EASEMENT
STD = STANDARD
SY = SQUARE YARD
T = TANGENT OF CURVE LENGTH
TC = TOP OF CURB
TB = THRUST BLOCKING
TW = TOP OF WALL
TYP. = TYPICAL
W = WEST
WM = WATER METER
W.S. = WATER SURFACE
W.S.E. = WATER SURFACE ELEVATION
YR = YEAR

SEE SURVEY/EXISTING CONDITIONS FOR ABBREVIATIONS SPECIFIC TO THAT SHEET

EXISTING CONDITIONS LEGEND

DESCRIPTION	SYMBOL
IRRIGATION CONTROL VALVE	ICV
IRON PIN FOUND	IPF
IRON PIN SET (1/2" RB)	IPS
OPEN TOP PIPE	OT
CRIMP TOP PIPE	CT
CONCRETE MONUMENT FOUND	CMF
NAIL AND CAP	N & C
REBAR	RB
POWER POLE	PP
TELEPHONE POLE	TP
LAND LOT	LL
LAND LOT LINE	LLL
POINT OF BEGINNING	POB
BUILDING LINE	BL
CENTER LINE	CL
PROPERTY LINE	PL
FIRE HYDRANT	FH
CATCH BASIN	CB
DROP INLET	DI
HEADWALL	HW
JUNCTION BOX	JB
DRAINAGE EASEMENT	DE
WATER METER	WM
WATER VALVE	WV
GAS VALVE	GV
MANHOLE	MH
RIGHT-OF-WAY MONUMENT FOUND	☒
GAS LINE	— GAS —
WATER LINE	— WAT —
SANITARY SEWER LINE	— SAN —
STORM DRAINAGE PIPE	— — — — —
OVERHEAD ELECTRIC LINE	— OH ELE —
OVERHEAD ELECTRIC/TELEPHONE/TV	— OH E/TV —
OVERHEAD ELECTRIC/TELEPHONE LINE	— OH ET —

GENERAL NOTES

- INGENIUM ENTERPRISES, INC. (IE) REGULARLY UPDATES ELECTRONIC FILES DURING THE DEVELOPMENT OF A PROJECT. AS A RESULT, THE DATA INCLUDED IN ANY CAD FILE OR DRAWING PRIOR TO ITS FINAL RELEASE DOES NOT NECESSARILY REFLECT THE COMPLETE SCOPE OR CONTENT AS DEFINED IN THE CONTRACT. THE CONTENTS IN THESE FILES MAY THEREFORE BE PRELIMINARY, INCOMPLETE WORK IN PROGRESS, AND SUBJECT TO CHANGE. FURTHERMORE, THE INFORMATION CONTAINED HEREIN IS THE EXCLUSIVE PROPERTY OF IE. THE ORIGINAL IDEAS REPRESENTED HERE BY THIS INFORMATION SHALL NOT BE USED, ALTERED OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF IE.
- DEVIATIONS FROM THESE PLANS AND NOTES WITHOUT PRIOR CONSENT OF THE OWNER, HIS REPRESENTATIVE, OR THE ENGINEER MAY CAUSE THE WORK TO BE UNACCEPTABLE.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER A COMPLETE PROJECT, READY TO USE, AND ALL ITEMS NECESSARY FOR A COMPLETE AND WORKABLE JOB SHALL BE FURNISHED AND INSTALLED. THIS INCLUDES ALL STRIPING AND SIGNAGE.
- IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR WILL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND WILL NOT BE LIMITED TO NORMAL WORKING HOURS. THE DUTY OF THE CONTRACTOR'S PERFORMANCE IS NOT INTENDED TO INCLUDE REVIEW OF THE ADEQUACY OF THE CONTRACTOR'S SAFETY MEASURES, IN, ON OR NEAR THE CONSTRUCTION SITE. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING ALL BARRICADES, WARNING SIGNS, FLASHING LIGHTS AND TRAFFIC CONTROL DEVICES DURING CONSTRUCTION. CONTRACTOR TO COMPLY WITH ALL OSHA REGULATIONS REQUIREMENTS AND SAFETY MEETING REQUIREMENTS.
- THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION, MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES, OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

PROPOSED LEGEND

GENERAL	LINETYPE/SYMBOL	REFERENCE
RIGHT-OF-WAY/PROPERTY LINE	— — — — —	SEE PLANS
CENTERLINE	— — — — —	SEE PLANS
LIMITS OF CONSTRUCTION	— L —	SEE PLANS
DETAIL REFERENCE	— — — — —	SEE PLANS
ADDENDUM AND/OR REVISION REFERENCE	— — — — —	SEE PLANS
SITE/HARDSCAPE	LINETYPE/SYMBOL	REFERENCE
CHAIN LINK FENCE	*****	NOT APPLICABLE
RETAINING WALL	— — — — —	NOT APPLICABLE
SCREEN WALL/DUMPSTER ENCLOSURE	— — — — —	SEE PLANS
CURB & GUTTER	— — — — —	DETAIL 6, SHEET C03.2
HEADER CURB	— — — — —	NOT APPLICABLE
CONCRETE SIDEWALK	— — — — —	DETAIL 10, SHEET C03.2
PROPOSED UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	— DW — DW —	1-1/2" PVC (COLOR CODED BLUE)
FIRE WATER LINE	— FW — FW —	NOT APPLICABLE
BUILDING FIRE SPRINKLER LINE	— FWS — FWS —	NOT APPLICABLE
IRRIGATION WATER LINE	— IRR — IRR —	1" POLY (COLOR CODED PURPLE)
DOMESTIC WATER METER (W/M)	— WM —	DETAIL 6, SHEET C04.2
IRRIGATION METER (IRR)	— IRR —	DETAIL 4, SHEET C04.2
BACKFLOW PREVENTER (RPZ)	— RPZ —	DETAIL 7, SHEET C04.2
FIRE VAULT (DDC)	— DDC —	NOT APPLICABLE
DC BACKFLOW PREVENTER	— — — — —	DETAIL 5, SHEET C04.2
WATER TAP OR TEE	— — — — —	NOT APPLICABLE
GATE VALVE (GV)	— GV —	NOT APPLICABLE
THRUST BLOCK (TB)	— TB —	NOT APPLICABLE
FIRE HYDRANT (FH)	— FH —	NOT APPLICABLE
FIRE DEPARTMENT CONNECTION (FDC)	— FDC —	NOT APPLICABLE
SANITARY SEWER (SS)	— SS — SS —	2" & 6" PVC (COLOR CODED GREEN)
SANITARY MANHOLE (SSMH)	— — — — —	NOT APPLICABLE
GENERAL CLEAN OUT (Co)	— Co —	DETAIL 2, SHEET C04.2
SAMPLING MANHOLE	— — — — —	NOT APPLICABLE
SANITARY STRUCTURE NUMBER	— — — — —	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	— USE-P — USE-P —	(2) 5" PVC
UNDERGROUND ELECTRIC LINE-SECONDARY	— USE-S — USE-S —	(2) 5" PVC
POST INDICATOR VALVE	— PIV —	NOT APPLICABLE
SITE LIGHTING POLE	— — — — —	SEE PLANS
TRANSFORMER PAD	— — — — —	DETAIL 8 SHEET C04.2
METER/CT PEDESTAL	— CT —	SEE PLANS
UNDERGROUND TELEPHONE LINE	— UGT — UGT —	(2) 4" PVC
TELEPHONE CABLE PULL BOX	— PB —	SEE PLANS
GENERAL UTILITY CONDUIT	— GU — GU —	4" PVC
GAS LINE	— G —	---
GAS METERS	— — — — —	SEE PLANS

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

FUTURE UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE (FUTURE)	— W (B.O.) —	SIZE VARIES
IRRIGATION LINE (FUTURE)	— IRR (B.O.) —	SIZE VARIES
GATE VALVE (FUTURE)	— — — — —	SIZE VARIES
FIRE HYDRANT (FUTURE)	— — — — —	SEE PLANS BY OTHERS
UNDERGROUND ELECTRIC LINE (FUTURE)	— USE (B.O.) —	SIZE VARIES
SANITARY SEWER (FUTURE)	— SS (B.O.) —	SIZE VARIES
UNDERGROUND CABLE LINE (FUTURE)	— FO (B.O.) —	SIZE VARIES
UNDERGROUND TELEPHONE LINE (FUTURE)	— TEL (B.O.) —	SIZE VARIES
GAS LINE (FUTURE)	— G (B.O.) —	SIZE VARIES
FUTURE CAP	— — — — —	SEE PLANS BY OTHERS

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE	— — — — —	SEE PLANS
SPOT ELEVATION	— — — — —	SEE PLANS
STORM DRAIN	— — — — —	SEE PLANS
HEADWALL (HW) / FLARED END SECTION (FES)	— — — — —	PROPOSED BY OTHERS
DROP INLET (GRATE)	— — — — —	NOT APPLICABLE
DROP INLET (GRATE AND HOOD)	— — — — —	DETAILS 4 & 5, SHEET C04.3
JUNCTION BOX (JB) / OCS	— — — — —	NOT APPLICABLE
CATCH BASIN (SINGLE WING)	— — — — —	NOT APPLICABLE
CATCH BASIN (DOUBLE WING)	— — — — —	NOT APPLICABLE
LANDSCAPE DRAIN	— — — — —	DETAILS 1 & 2, SHEET C04.3
STORM STRUCTURE NUMBER	— — — — —	SEE PLANS
ESPC BMP	LINETYPE/SYMBOL	REFERENCE
Co CONSTRUCTION EXIT	— — — — —	SHEET C06.4
SR CONSTRUCTION EXIT	— — — — —	SHEET C06.4
SF SILT FENCE - TYPE C	— — — — —	SHEET C06.5
SF SILT FENCE - TYPE C DOUBLE	— — — — —	SHEET C06.5
IP INLET PROTECTION	— — — — —	SHEET C06.6
OP OUTLET PROTECTION	— — — — —	SHEET C06.7
DU DUST CONTROL	— — — — —	---
Ts TEMPORARY SEEDING	— — — — —	SHEET C06.4
Ps PERMANENT SEEDING	— — — — —	SHEET C06.8
M MULCHING	— — — — —	SHEET C06.8
So SODDING	— — — — —	SHEET C06.7

SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS

PASCO COUNTY - STANDARD SITE PLAN NOTES

- PASCO COUNTY DEVELOPMENT REVIEW - STANDARD SITE PLAN NOTES
- ALL UTILITY CONSTRUCTION SHALL COMPLY WITH THE PASCO COUNTY STANDARDS FOR DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER FACILITIES SPECIFICATIONS, LATEST EDITION.
 - ALL ON-SITE WATER AND SEWER FACILITIES SHALL BE OWNED AND MAINTAINED BY THE OWNER/DEVELOPER.
 - INSTALLATION OF FUEL STORAGE TANKS REQUIRES REVIEW AND APPROVAL BY THE FIRE MARSHAL AND THE ISSUANCE OF A SEPARATE BUILDING PERMIT. APPROVAL OF THE SITE PLAN DOES NOT CONSTITUTE APPROVAL OF THE LOCATION OF THE FUEL TANKS.
 - ALL PROPOSED SIGNS MUST BE APPLIED FOR, APPROVED, AND PERMITTED ON AN INDIVIDUAL BASIS APART FROM ANY ULTIMATELY APPROVED SITE PLAN. APPROVAL OF THIS SITE PLAN DOES NOT CONSTITUTE APPROVAL OF ANY SIGNAGE.
 - HANDICAP PARKING SPACES WILL BE PROPERLY SIGNED AND STRIPED IN ACCORDANCE WITH FLORIDA STATUTE 316, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, OR OTHER APPLICABLE STANDARDS.
 - THE ARCHITECT/ENGINEER CERTIFIES THAT THE SITE HAS BEEN DESIGNED IN ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT.
 - ALL ON-SITE PARKING SPACES WILL BE STRIPED AND SIGNED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION, PARKING SPACES, DIRECTIONAL ARROWS, AND STOP BARS SHALL BE STRIPED IN WHITE. IT SHALL BE THE OWNER/DEVELOPER'S RESPONSIBILITY TO PROPERLY SIGN AND STRIPE IN ACCORDANCE WITH APPLICABLE STANDARDS.
 - THE OWNER/DEVELOPER ACKNOWLEDGES THAT THIS APPROVAL DOES NOT INCLUDE ANY WORK IN THE COUNTY RIGHT-OF-WAY. ALL RIGHT-OF-WAY WORK SHALL BE A FUNCTION OF AN APPROVED PASCO RIGHT-OF-WAY USE PERMIT.
 - ALL CLEAR-SITE AREAS SHALL BE KEPT FREE OF ANY SIGNAGE PLANTINGS, TREES, ETC. IN EXCESS OF THREE-AND-A-HALF (3-1/2) FEET IN HEIGHT.
 - NO IRRIGATION SYSTEM OR LANDSCAPING SHALL BE INSTALLED IN ANY COUNTY OR STATE RIGHT-OF-WAY WITHOUT ISSUANCE OF APPROPRIATE RIGHT-OF-WAY USE PERMIT.
 - THE OWNER/DEVELOPER ACKNOWLEDGES THAT THE SITE AND ITS SUBSEQUENT BUILDING PERMITS SHALL COMPLY WITH ALL REZONING/MPUD/PUD CONDITIONS.
 - ALL STRUCTURES, INCLUDING BUFFER WALLS, RETAINING WALLS, SIGNAGE, ETC. REQUIRE BUILDING PERMITS.
 - IF A PROJECT SITE CONTAINS AN EASEMENT, ESPECIALLY A POWER COMPANY EASEMENT, A LETTER OF NO OBJECTION IS REQUIRED FROM THE EASEMENT HOLDER. BY SIGNING AND SEALING THIS PLAN THE ENGINEER OF RECORD IS ATTESTING THAT HE/SHE HAS IDENTIFIED AND ACCURATELY SHOWN ALL EASEMENTS OF RECORD ON THE PLANS.

IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF THE PRESENCE OF STATE OR FEDERALLY PROTECTED PLANT AND/OR ANIMAL SPECIES IS DISCOVERED, PASCO COUNTY AND APPLICABLE AGENCIES SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE PLANT AND/OR ANIMAL SPECIES FOUND ON THE SITE. ALL WORK IN THE AFFECTED AREA SHALL COME TO AN IMMEDIATE STOP UNTIL ALL PERTINENT PERMITS HAVE BEEN OBTAINED, AGENCY WRITTEN AUTHORIZATION TO COMMENCE ACTIVITIES HAS BEEN GIVEN, OR UNLESS COMPLIANCE WITH STATE AND FEDERAL GUIDELINES CAN BE DEMONSTRATED.

IF DURING CONSTRUCTION ACTIVITIES ANY EVIDENCE OF HISTORIC RESOURCES, INCLUDING BUT NOT LIMITED TO ABORIGINAL OR HISTORIC POTTERY, PREHISTORIC STONE TOOLS, BONE OR SHELL TOOLS, HISTORIC TRASH PITS, OR HISTORIC BUILDING FOUNDATIONS ARE DISCOVERED, WORK SHALL COME TO AN IMMEDIATE STOP AND THE FLORIDA DEPARTMENT OF HISTORIC RESOURCES (STATE HISTORIC PRESERVATION OFFICER) AND PASCO COUNTY SHALL BE NOTIFIED WITHIN TWO WORKING DAYS OF THE RESOURCES FOUND ON THE SITE.

PASCO COUNTY LANDSCAPING STANDARD NOTES

- WHERE A DRIVEWAY/ACCESSWAY INTERSECTS A ROAD RIGHT-OF-WAY OR WHERE TWO (2) ROAD RIGHTS-OF-WAY INTERSECT, VEGETATION, STRUCTURES, AND NON-VEGETATIVE VISUAL SCREENS SHALL NOT BE LOCATED SO AS TO INTERFERE WITH THE CLEAR-SIGHT TRIANGLE AS DEFINED IN THIS CODE OR THE FLORIDA DEPARTMENT OF TRANSPORTATION, MANUAL OF UNIFORM MINIMUM STANDARDS, MOST RECENT EDITION (GREEN BOOK), WHICHEVER IS MORE RESTRICTIVE. (LDC 905.2.C.1.B)
- LANDSCAPING SHALL BE INSTALLED SO THAT LANDSCAPING MATERIALS MEET THE CONCEPT OF RIGHT MATERIAL/RIGHT PLACE. INSTALLED TREES AND PLANTS SHALL BE GROUPED INTO ZONES ACCORDING TO WATER, SOIL, CLIMATE, AND LIGHT REQUIREMENTS. PLANT GROUPINGS BASED ON WATER REQUIREMENTS ARE DROUGHT TOLERANT, NATURAL, AND OASIS. (LDC 905.2.C.1.C)
- ALL PLANT MATERIALS SHALL BE FLORIDA NO. 1 GRADE PER "GRADES AND STANDARDS FOR NURSERY PLANTS," FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES (FDACS), WHICH IS INCORPORATED HEREIN BY REFERENCE. (LDC 905.2.C.2.A)
- GROUND COVER PLANTS SHALL BE SPACED TO PRESENT A FINISHED APPEARANCE AND OBTAIN A REASONABLY COMPLETE COVERAGE WITHIN ONE (1) YEAR. NON-LIVING GROUND COVER, SUCH AS MULCH, GRAVEL, ROCKS, ETC., SHALL BE USED IN CONJUNCTION WITH LIVING PLANTS SO TO COVER EXPOSED SOIL AND SUPPRESS FUGITIVE DUST. (LDC 905.2.C.2.G)
- ALL TREES SHALL BE PLANTED ACCORDING TO THE FLORIDA CHAPTER, INTERNATIONAL SOCIETY OF ARBORICULTURE STANDARDS FOR PLANTING, WHICH IS INCORPORATED HEREIN BY REFERENCE. ALL TREES MUST BE MAINTAINED IN GOOD CONDITION AND PLANTED IN LOCATIONS WITH ADEQUATE OPEN SPACE TO ALLOW FOR MATURE TREE-CANOPY DEVELOPMENT. (LDC 905.2.C.3.B)
- TREES SHALL NOT BE PLANTED WITHIN ANY EASEMENT SO AS TO INTERFERE WITH THE USE OF THAT EASEMENT, NOR UNDER ANY PRESENT OR PLANNED OVERHEAD UTILITY, NOR IN ANY RIGHTS-OF-WAY WITHOUT COUNTY APPROVAL THROUGH THE ASSOCIATED REVIEW PROCESS. (LDC 905.2.C.3.C)
- MULCH SHALL BE USED IN CONJUNCTION WITH LIVING PLANT MATERIALS SO AS TO COVER EXPOSED SOIL. MULCH SHALL BE INSTALLED TO A MINIMUM DEPTH OF THREE (3) INCHES. THE MULCH SHOULD NOT BE PLACED DIRECTLY AGAINST THE PLANT STEM OR TREE TRUNK. MULCH SHALL NOT BE REQUIRED FOR ANNUAL BEDS. STONE OR GRAVEL MAY BE USED TO COVER A MAXIMUM OF 20 PERCENT OF THE LANDSCAPED AREA. (LDC 905.2.C.3.D)
- ALL LANDSCAPING SHALL BE INSTALLED IN ACCORDANCE WITH STANDARDS AND PRACTICES OF THE FLORIDA NURSERY, GROWERS, AND LANDSCAPE ASSOCIATION AND THE FLORIDA CHAPTER OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. (LDC 905.2.C.3.E)
- ALL HEIGHT REQUIREMENTS SHALL BE BASED ON THE FINISHED GRADE OF THE LANDSCAPED AREA AND MEASURED AT THE MAIN STEM. (LDC 905.2.C.3.F)
- ALL PORTIONS OF A LOT UPON WHICH DEVELOPMENT HAS COMMENCED, BUT NOT CONTINUED FOR A PERIOD OF 30 DAYS, SHALL BE PLANTED WITH A GRASS SPECIES OR GROUND COVER TO PREVENT EROSION AND ENCOURAGE SOIL STABILIZATION. ADEQUATE COVERAGE, SO AS TO SUPPRESS FUGITIVE DUST, SHALL BE ACHIEVED WITHIN 45 DAYS. (LDC 905.2.C.3.G)
- ALL PORTIONS OF EACH SITE, WHICH ARE NOT DEVOTED TO BUILDINGS, SIDEWALKS, PAVING, OR SPECIAL LANDSCAPE FEATURES SHALL BE GRASSED. HOWEVER, NO MORE THAN THIRTY (30) PERCENT OF THE REQUIRED LANDSCAPE AREA MAY BE GRASSED. THE BALANCE SHALL BE LANDSCAPED IN SHRUBS AND GROUND COVER PLANTS. (LDC 905.2.D.1.A)
- ALL REQUIRED LANDSCAPING SHALL BE MAINTAINED IN A HEALTHY CONDITION IN PERPETUITY IN ACCORDANCE WITH THIS CODE. (LDC 905.2.E.2)
- ONGOING MAINTENANCE TO PREVENT THE ESTABLISHMENT OF PROHIBITED EXOTIC SPECIES IS REQUIRED. (LDC 905.2.E.4)

A LETTER OF COMMITMENT FOR WATER & SEWER SERVICE, AND A LETTER OF SERVICE AVAILABILITY FOR ELECTRIC SERVICE HAVE ALL BEEN PROVIDED FOR THIS PROJECT. THE LETTERS WERE PROVIDED TO DOREEN ROY IN PLANNING ON 03/30/2021.

IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO ENSURE THE UTILITY PLANS SUBMITTED WITH THE FINAL PLAN SET MATCH THOSE PLANS APPROVED BY THE APPROPRIATE UTILITY PROVIDER.



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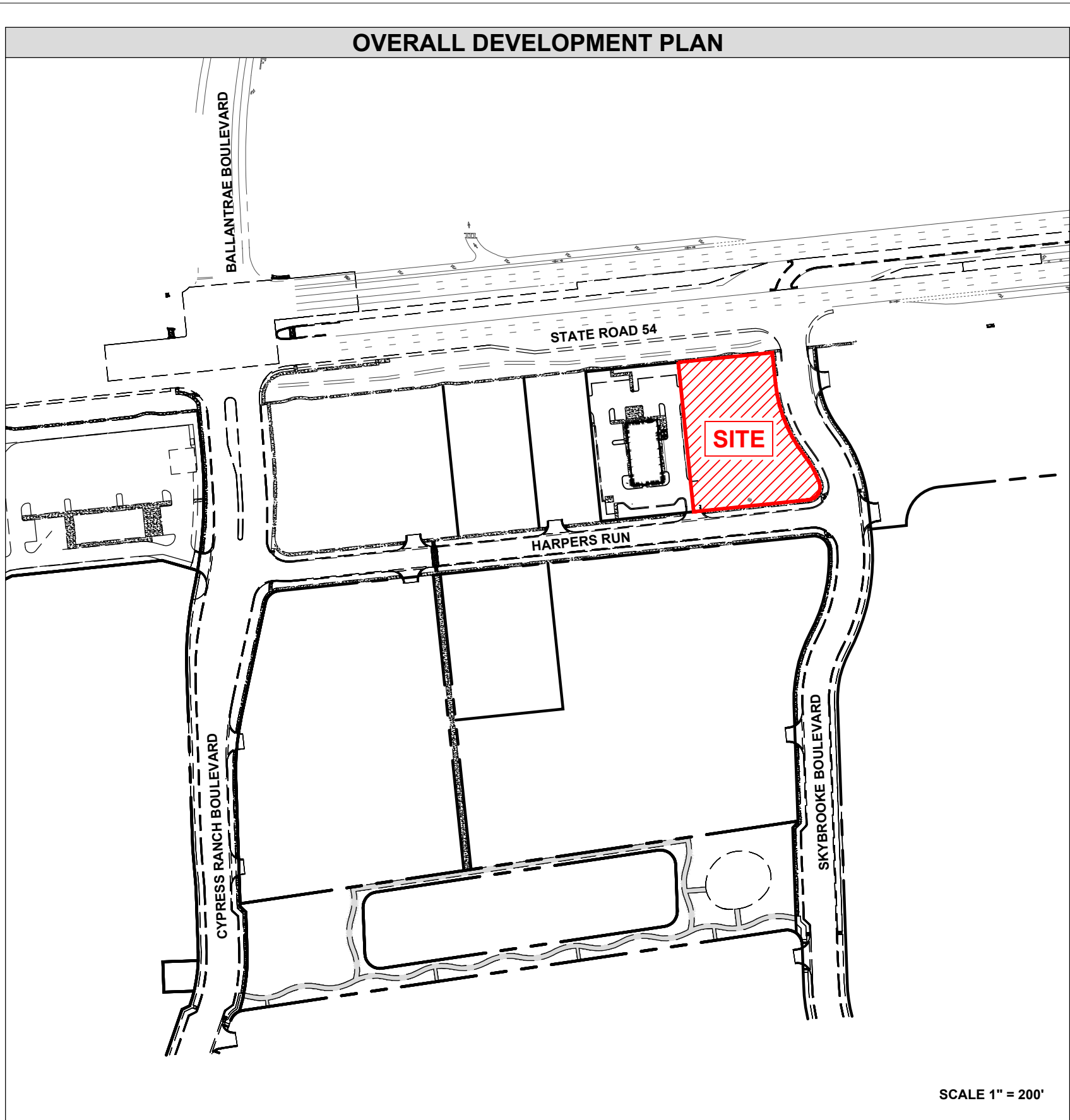
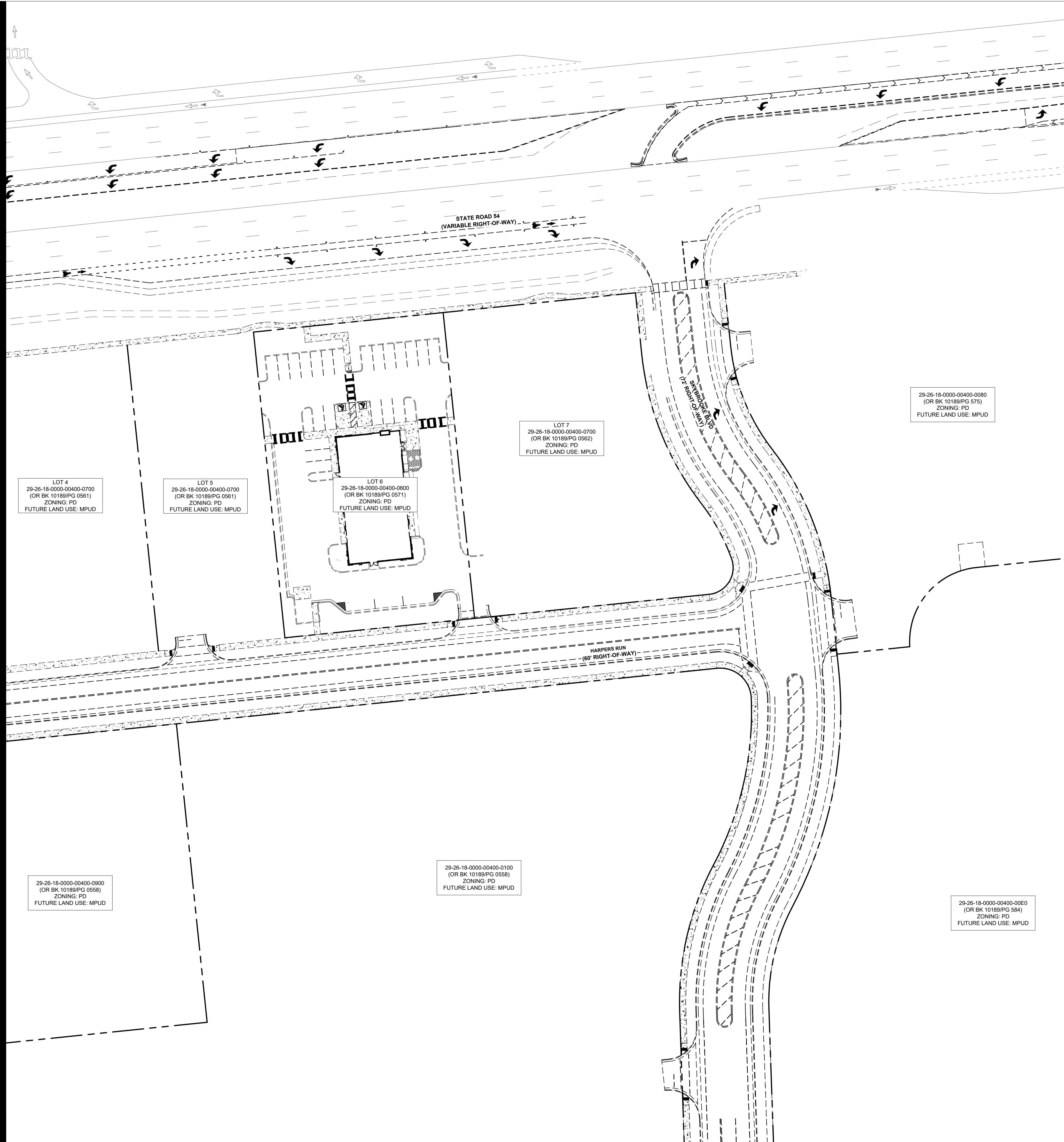
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GENERAL NOTES
C01.1

TRUE WARM & WELCOME 2300



LEGAL DESCRIPTION (LOT 7)

THAT PORTION OF SECTION 29, TOWNSHIP 26 SOUTH, RANGE 18 EAST, PASCO COUNTY, FLORIDA, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF SAID SECTION 29; THENCE RUN NORTH 89°26'29" WEST, ALONG THE SOUTH LINE OF THE SOUTHEAST 1/4 OF SAID SECTION 29, A DISTANCE OF 2637.79 FEET TO THE SOUTH 1/4 CORNER OF SAID SECTION 29; THENCE DEPARTING SAID SOUTH LINE, RUN NORTH 00°17'39" EAST, ALONG THE WEST LINE OF THE SOUTHEAST 1/4 OF SAID SECTION 29, A DISTANCE OF 2640.64 FEET TO THE CENTER OF SAID SECTION 29; THENCE DEPARTING SAID WEST LINE, RUN NORTH 00°18'02" EAST, ALONG THE WEST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 29, A DISTANCE OF 61.68 FEET TO A POINT ON THE SOUTHERLY RIGHT-OF-WAY LINE OF STATE ROAD NO. 54 (A VARIABLE WIDTH RIGHT-OF-WAY PER FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT-OF-WAY MAP, SECTION 14570-2521); THENCE DEPARTING SAID WEST LINE, RUN ALONG SAID SOUTHERLY RIGHT-OF-WAY LINE THE FOLLOWING TWO (2) COURSES AND DISTANCES: 1) THENCE RUN NORTH 86°05'34" EAST, A DISTANCE OF 1186.76 FEET TO THE POINT OF BEGINNING; 2) THENCE CONTINUE NORTH 86°05'34" EAST, A DISTANCE OF 155.93 FEET; THENCE DEPARTING SAID SOUTHERLY RIGHT-OF-WAY LINE, RUN SOUTH 03°54'26" EAST, A DISTANCE OF 50.00 FEET TO A POINT OF CURVATURE OF A 236.00 FOOT RADIUS CURVE CONCAVE TO THE EAST; THENCE RUN SOUTHERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 31°14'18" AN ARC DISTANCE OF 130.94 FEET TO A POINT OF REVERSE CURVATURE OF A 164.00 FOOT RADIUS CURVE CONCAVE TO THE SOUTHWEST; THENCE RUN SOUTHEASTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 17°53'47" AN ARC DISTANCE OF 51.23 FEET TO A POINT OF COMPOUND CURVATURE OF A 21.50 FOOT RADIUS CURVE CONCAVE TO THE NORTHWEST; THENCE RUN SOUTHWESTERLY ALONG SAID CURVE THROUGH A CENTRAL ANGLE OF 103°53'31" AN ARC DISTANCE OF 38.99 FEET TO A POINT OF TANGENCY; THENCE RUN SOUTH 86°05'34" WEST, A DISTANCE OF 190.26 FEET; THENCE RUN NORTH 03°54'26" WEST, A DISTANCE OF 248.00 FEET TO THE POINT OF BEGINNING.

SAID LANDS CONTAINING 1.00 ACRES, MORE OR LESS.

24-HOUR CONTACT:
JOE CELENTO
(912) 272-4811



CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.



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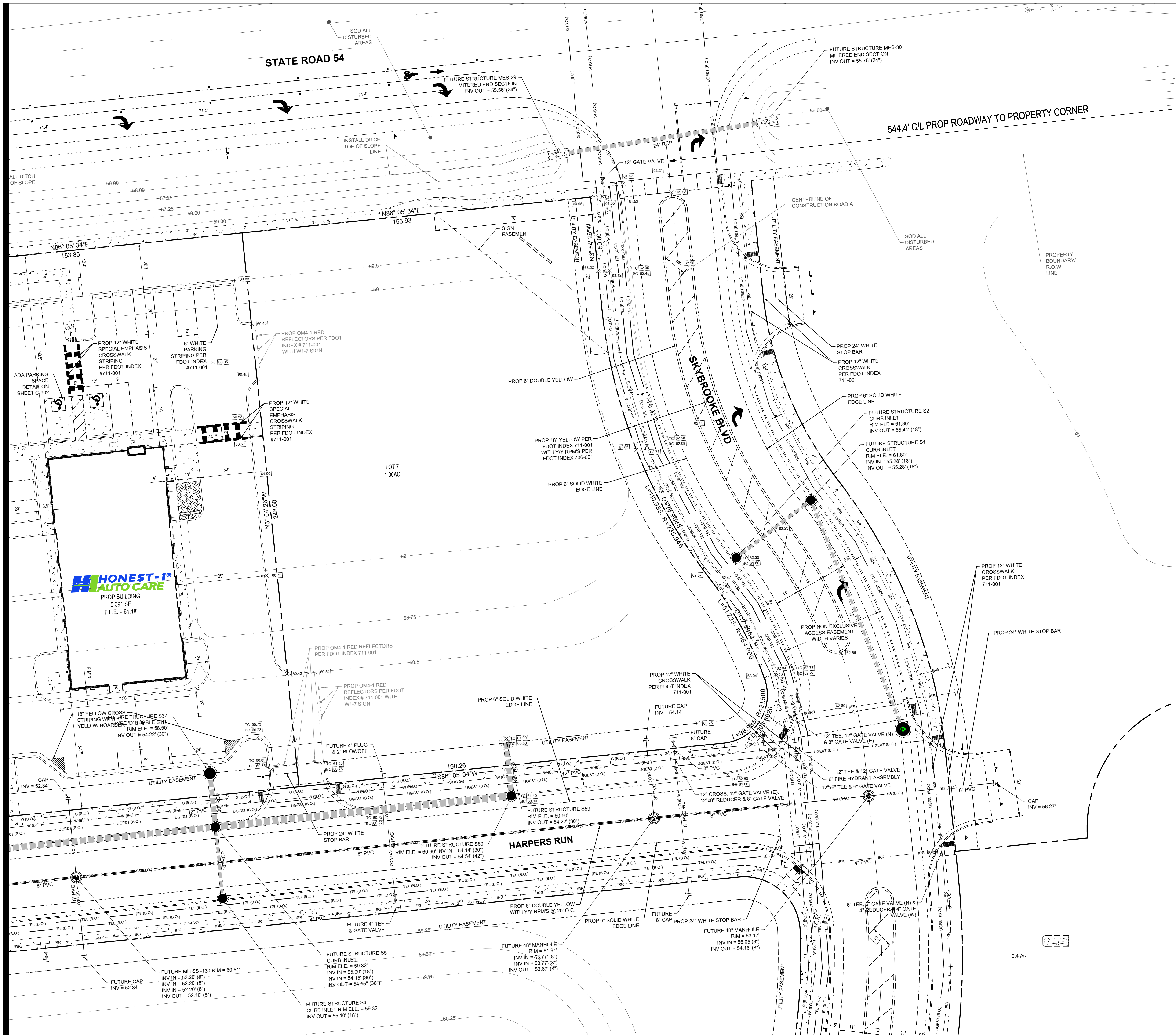
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DEVELOPMENT PLAN
C02.0

TRUE WARM & WELCOME 2020



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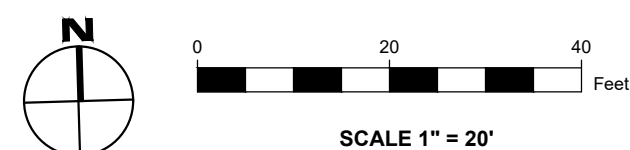
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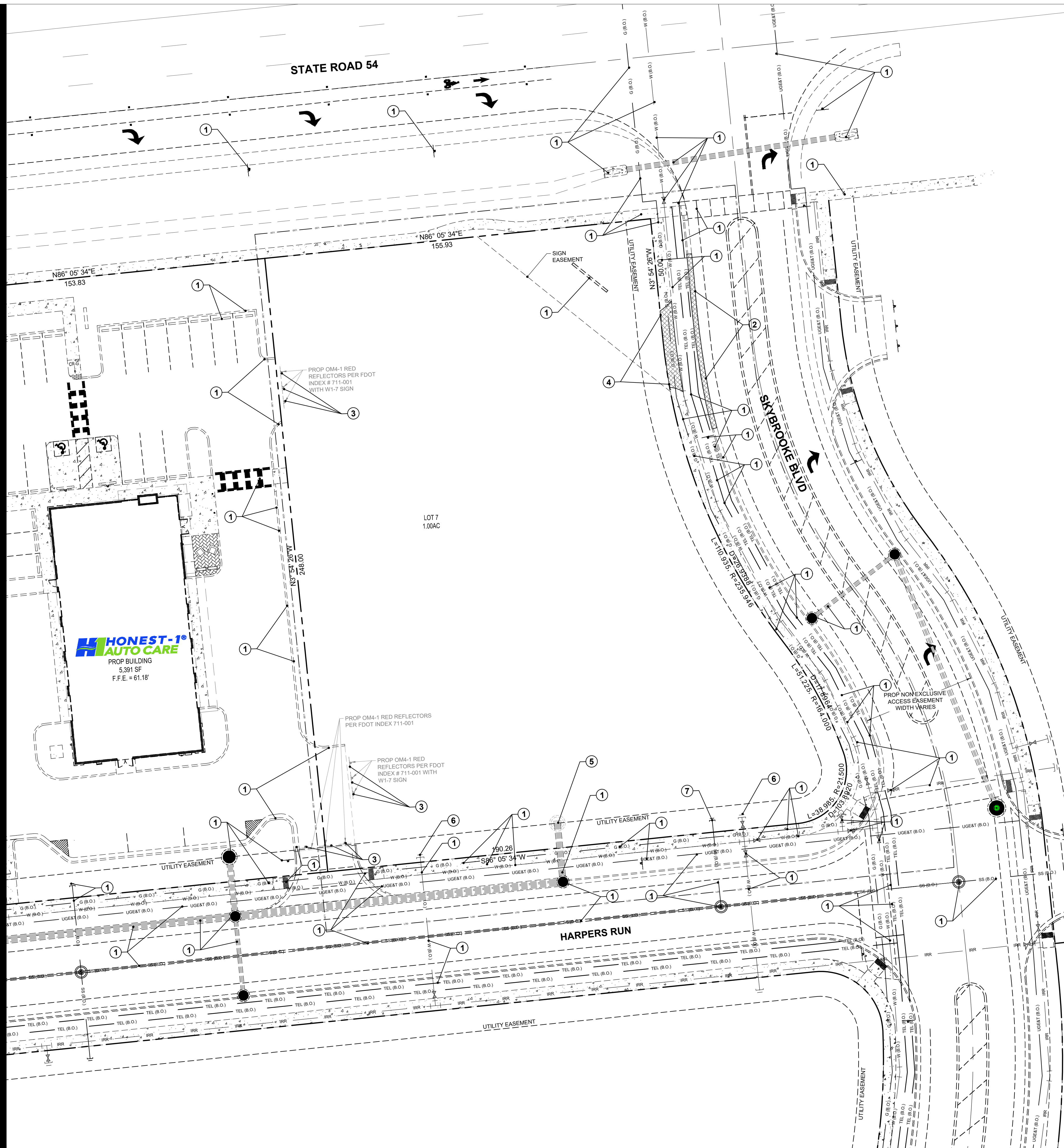
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24-HOUR CONTACT:
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**EXISTING
CONDITIONS PLAN
C02.1**

TRUE WARM & WELCOME 2020



DEMOLITION LEGEND

- 1 PROTECT ALL ITEMS DURING ALL PHASES OF CONSTRUCTION (SEE GENERAL DEMOLITION NOTE #1). THE CONTRACTOR SHALL ENSURE THE INTEGRITY OF ALL ITEMS DENOTED TO BE PROTECTED THAT ARE ADJACENT TO ITEMS DENOTED TO BE DEMOLISHED AND WILL SAFELY REPAIR ANY SUCH ITEMS TO THE REQUIRED JURISDICTIONAL STANDARDS.
- 2 CONTRACTOR SHALL SAWCUT AND REMOVE FUTURE/EXISTING CURB AND GUTTER TO NEAREST JOINTS.
- 3 CONTRACTOR SHALL REMOVE ALL BARRICADES, FOOT REFLECTOR SIGNS, POLES, & ALL ASSOCIATED APPURTENANCES INCLUDING, BUT NOT LIMITED TO, FOOTERS, REBAR AND BASE.
- 4 CONTRACTOR SHALL SAWCUT AND REMOVE FUTURE/EXISTING SIDEWALK TO NEAREST JOINTS.
- 5 CONTRACTOR SHALL REMOVE FUTURE/EXISTING INLET FRAME, GRATE & TOP AND CONVERT TO FDOT TYPE 9 CURB INLET AS NOTED ON SHEET C05.0. SEE GENERAL DEMOLITION NOTE #3.
- 6 CONTRACTOR SHALL REMOVE FUTURE/EXISTING PLUGS & BLOWOFF VALVES PRIOR TO CONNECTING AND INSTALLING IRRIGATION AND DOMESTIC LINES. REFER TO SHEET C04.1 FOR MORE INFORMATION.
- 7 CONTRACTOR SHALL REMOVE FUTURE/EXISTING PLUGS & CAPS PRIOR TO CONNECTING AND INSTALLING SANITARY SEWER LINES. REFER TO SHEET C04.1 FOR ADDITIONAL INFORMATION.

GENERAL DEMOLITION NOTES

- 1. ALL ITEMS TO BE PROTECTED SHALL BE PROTECTED THROUGH ALL THE PHASES OF CONSTRUCTION UNTIL FINAL ACCEPTANCE BY PASCO COUNTY IS RECEIVED.
- 2. CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REQUIREMENTS WITH ALL DEMOLITION ACTIVITIES. IF ADDITIONAL REQUIREMENTS ARE REQUIRED FOR HAZARDOUS WASTE REMOVAL INCLUDING BUT NOT LIMITED TO ASBESTOS, SEPTIC, FIELDS, LEAD, PCB, TOP, OR OTHER WASTE OR CONTAMINANT, IT IS THE CONTRACTORS RESPONSIBILITY TO COMPLY WITH MANDATES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 3. CONTRACTORS SHALL COORDINATE WITH ALL UTILITY COMPANIES CONCERNING THE ABANDONMENT, RELOCATION AND/OR DEMOLITION OF UTILITIES PRIOR TO CONSTRUCTION. NO WORK IS TO BE PERFORMED ON LIVE LINES UNLESS APPROVED IN WRITING BY THE UTILITY IN ALL CASES. A REPRESENTATIVE FROM THE UTILITY SHALL BE PRESENT FOR INITIAL ABANDONMENT AND/OR LIVE CUTS. CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR UTILITIES AND SHALL PROTECT THEM AT ALL TIMES.
- 4. CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT OF ALL NECESSARY PERMITS.
- 5. DEMOLITION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ANY ITEM NECESSARY TO PERFORM THE REQUIRED DEMOLITION AS INDICATED ON THE PLANS.
- 6. RELOCATION SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, HAULING, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO REMOVE, RELOCATE, AND INSTALL NEW ITEMS AS INDICATED ON THE PLANS.
- 7. ABANDONMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, PERMITTING, FEES, AND COORDINATION WITH PUBLIC AND/OR PRIVATE UTILITY REQUIRED TO ADEQUATELY ABANDON ITEMS AS INDICATED ON THE PLANS.
- 8. THE CONTRACTOR SHALL COORDINATE ALL TREE AND LANDSCAPE REMOVAL WITH THE LANDSCAPE PLANS. ANY DISCREPANCY BETWEEN THIS DEMOLITION PLAN AND THE LANDSCAPE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY.
- 9. THE CONTRACTOR IS FULLY AND COMPLETELY RESPONSIBLE FOR LOCATION, VERIFICATION, PROTECTION, STORAGE, MAINTENANCE, DEMOLITION, REMOVAL, RELOCATION OR ALTERATION OF ALL EXISTING SITE UTILITIES, SITE IMPROVEMENTS, STRUCTURES, OR CONSTRUCTION ELEMENTS AS REQUIRED TO COMPLETE THE WORK THAT ARE SHOWN ON THE PLANS AND OR THAT ARE OBSERVABLE IN THE FIELD, WHETHER CONSPICUOUSLY VISIBLE OR NOT. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR WITH ALL EXISTING IMPROVEMENTS, UTILITIES, AND SITE CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION.
- 10. THIS DEMOLITION PLAN IS FOR GRAPHICAL REFERENCE ONLY. ITEMS NOT DEPICTED ON THESE PLAN MAY BE REQUIRED TO BE PROTECTED, REMOVED, OR RELOCATED. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING THE LOCATIONS OF ALL EXISTING STRUCTURES, UTILITIES, AND APPURTENANCES WITHIN THE LIMITS OF CONSTRUCTION. DEMOLITION INCLUDES BUT IS NOT LIMITED TO THE ITEMS SHOWN ON THIS PLAN.
- 11. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN WORKING NEAR ANY EXISTING UNDERGROUND OR OVERHEAD UTILITIES.
- 12. SAWCUT DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD STAKE AND CONSULT ENGINEER TO VERIFY PRIOR TO CONSTRUCTION.



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CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

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24-HOUR CONTACT:
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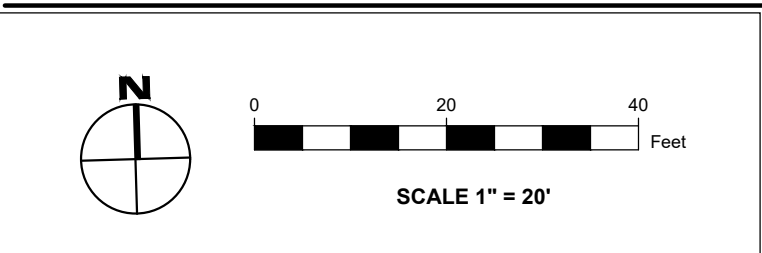
DEMOLITION PLAN
C02.2



CONTRACTOR SHALL PROTECT ALL ITEMS
OUTSIDE LIMITS OF CONSTRUCTION UNLESS
OTHERWISE NOTED IN THE CONSTRUCTION
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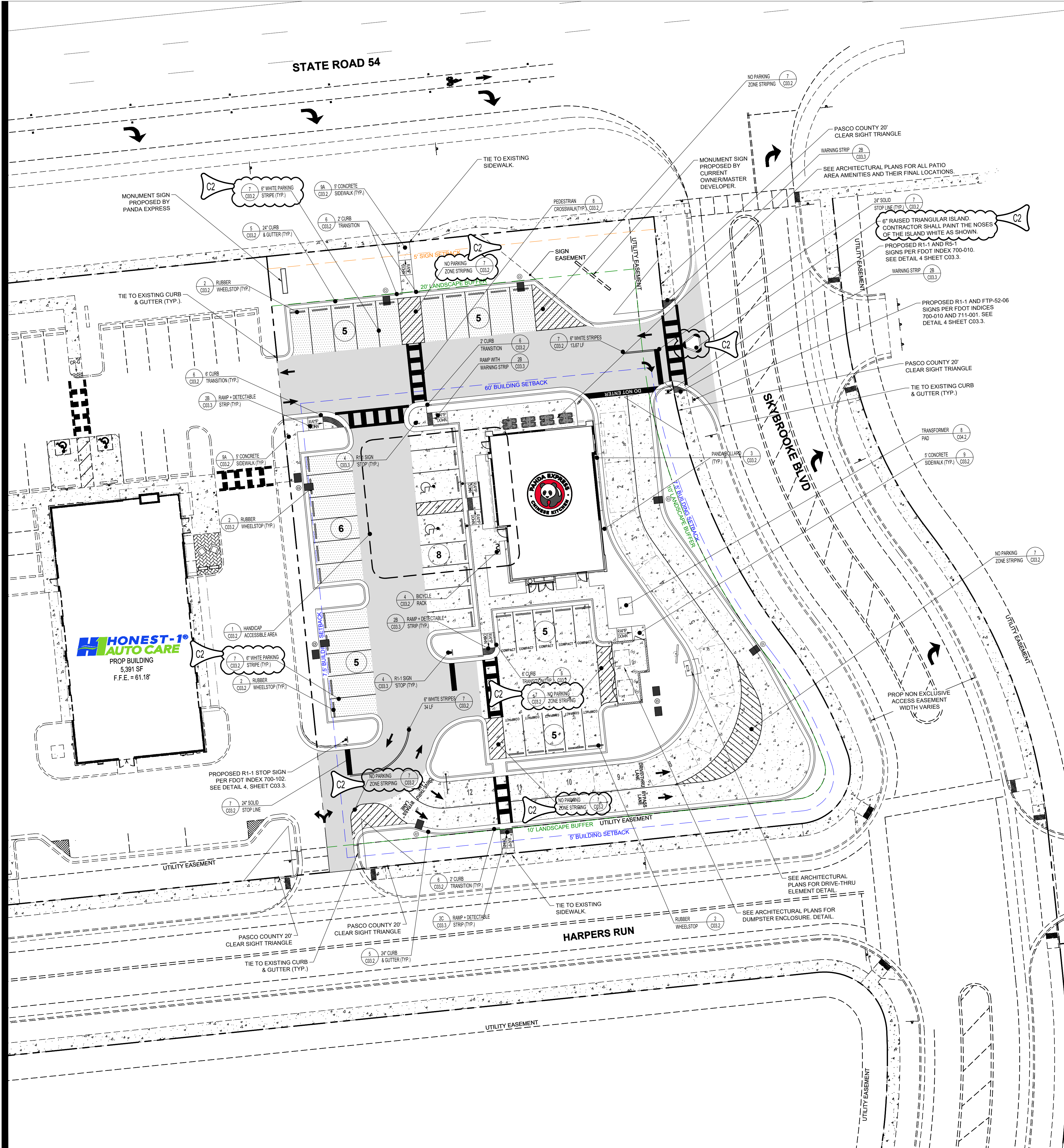
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AERIAL MAP
C02.3

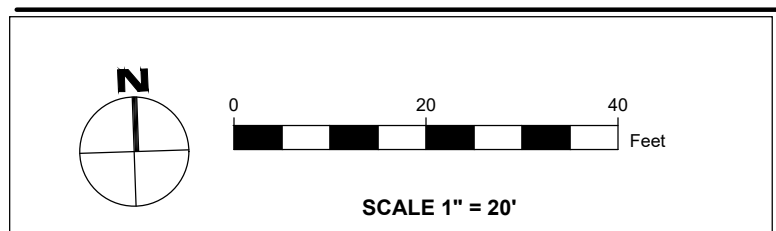


- PAVING LEGEND**
- HEAVY DUTY PAVEMENT SECTION:**
DETAIL 3A, SHEET C03.3
- LIGHT DUTY PAVEMENT SECTION:**
DETAILS 3B, SHEET C03.3
- CONCRETE SECTIONS:**
SIDEWALK:
DETAIL 3C, SHEET C03.3
DRIVE-THRU:
DETAIL 1, TYPE A, SHEET C03.3
PARKING:
DETAIL 1, TYPE B, SHEET C03.3
DUMPSTER APPROACH PAD:
DETAIL 3C, SHEET C03.3

- BUILDING AREA NOTES**
1. MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION; i.e. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC. WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 1141 3-1).
 2. CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDING. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
 3. SEE SHEET C01.1 FOR GENERAL NOTES.

- SITE NOTES**
1. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXISTING IMPROVEMENTS AND TREES AND OTHER DEBRIS WITHIN THE LIMITS OF THE WORK FROM THE SITE. ON SITE BURIAL OF TREES AND OTHER DEBRIS WILL NOT BE ALLOWED. THERE ARE NO KNOWN INERT BURY PITS ON THE SITE AND NONE WILL BE ALLOWED DURING CONSTRUCTION OF THE PROJECT.
 2. ALL WORK SHALL COMPLY WITH PASCO COUNTY, STATE OF FLORIDA, AND FEDERAL CODES AND ALL NECESSARY LICENSES AND PERMITS SHALL BE OBTAINED BY THE CONTRACTOR AT HIS EXPENSE UNLESS PREVIOUSLY OBTAINED BY THE OWNER.
 3. ALL WORK SHALL BE PERFORMED IN A FINISHED AND WORKMANLIKE MANNER TO THE ENTIRE SATISFACTION OF THE OWNER, AND IN ACCORDANCE WITH THE BEST RECOGNIZED TRADE PRACTICES.
 4. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER PRIOR TO USE.
 5. ALL WORK PERFORMED ON CITY, COUNTY, AND/OR STATE OR FEDERAL RIGHT-OF-WAY SHALL BE IN STRICT CONFORMANCE WITH APPLICABLE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE GOVERNING AGENCIES.
 6. BASE COURSE MATERIALS, EQUIPMENT, METHODS OF CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO "STATE OF FLORIDA" TRANSPORTATION STANDARD SPECIFICATIONS", CURRENT EDITION.
 7. ALL BUILDING DIMENSIONS SHALL BE CHECKED AND COORDINATED WITH THE ARCHITECTURAL PLANS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 8. PHOTOMETRICS DESIGNED BY OTHERS. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN AND OWNER PRIOR TO CONSTRUCTION.
 9. ALL PARKING SPACES, PAVEMENT ARROWS, STOP BARS, AND SIGNS SHALL MATCH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND FDOT INDICES 700 AND 711.
 10. SEE SHEET C01.1 FOR GENERAL NOTES.
 11. ANY LIGHTING USED TO ILLUMINATE ANY PARKING AREA SHALL BE SO ARRANGED AS TO DIRECT AND/OR SHIELD LIGHT AWAY FROM ADJOINING RESIDENT PREMISES AND RIGHT-OF-WAY.

24-HOUR CONTACT:
JOE CELENTO
(912) 272-4811



SITE INFORMATION	
JURISDICTION:	PASCO COUNTY
ZONING:	MASTER PLANNED UNIT DEVELOPMENT (MPUD)
FUTURE LAND USE:	PLANNED DEVELOPMENT (PD)
PARCEL NUMBER:	29 26 18 0000 00400 0070 (BASED ON PASCO MAPPER)
REQUIRED BUILDING SETBACKS:	FRONT: 60' SIDE: 7.5' SIDE: 7.5' REAR: 5'
REQUIRED PARKING:	19 SPACES - ONE (1) SPACE FOR EVERY 150 SF OF GROSS FLOOR AREA, ASSUMING A 2,381 SF BUILDING AND A 400 SF OUTDOOR DINING SPACE IS PROVIDED, THE MINIMUM PARKING REQUIRED IS 19 SPACES.
PROPOSED PARKING :	9' X 20' (REGULAR) = 27 8'x16' (COMPACT) = 10 12' X 20' (HC) = 2 TOTAL = 39
PROVIDED LANDSCAPE BUFFER:	FRONT: 20' TYPE D BUFFER (NORTH) REAR: 10' TYPE A BUFFER (SOUTH) SIDE: 5' TYPE A BUFFER (EAST AND WEST)
DRIVE AISLE: 24'	
SITE AREA CALCULATIONS:	SITE: ±1.00 AC. PERVIOUS AREA: ±2.27 AC. IMPERVIOUS AREA: ±7.73 AC. DISTURBED AREA: ±1.20 AC.
FLOOD HAZARD:	A PORTION OF THIS PROPERTY IS LOCATED IN A SPECIAL FLOOD AREA AS PER F.I.R.M. MAP NO. 12101C0384F, DATED 09/26/2014. HOWEVER, PLANS PROVIDED BY BOHLER ENGINEERING SHOW THAT ALL WETLANDS AND FLOODPLAINS WILL BE FILLED IN. PLEASE SEE PLANS PROVIDED BY BOHLER ENGINEERING AND APPROVED BY COUNTY ON 05/08/2020.
EXISTING INFORMATION:	ALL EXISTING INFORMATION SHOWN HEREIN IS BASED OFF OF DESIGN FILES PROVIDED BY BOHLER ENGINEERING, DATED 11/18/2020. ALL ELEVATIONS SHOWN HEREON ARE BASED OFF OF THE ABOVE REFERENCED DESIGN FILES, WHICH ARE BASED ON NATIONAL GEODETIC SURVEY BENCHMARK D689, SAID POINT BEING A SURVEY DISC STAMPED "D689 2008" SET IN TOP OF A CONCRETE MONUMENT AND HAVING AN ELEVATION OF 80.39 FEET, PURSUANT TO THE NAVD88.
SITE LIGHTING:	PHOTOMETRICS DESIGNED BY VILLA LIGHTING. POLE LOCATIONS ARE SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY FINAL LOCATION OF POLES WITH PHOTOMETRIC PLAN, SHEETS SL1.0, AND OWNER PRIOR TO CONSTRUCTION.
FLOOR AREA RATIO CALCULATION:	TOTAL BUILDING AREA = 2,381 SF = 0.055 AC. DEVELOPABLE ACREAGE = 1.00 AC. (1.00 LOT AREA - 0.00 WETLANDS) FLOOR AREA RATIO = 0.055.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.

CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTER AREAS AROUND BUILDING AND PATIO.



PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMead, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8288

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C1	1ST COUNTY COMMENTS 04/05/2021
C2	2ND COUNTY COMMENTS 06/04/2021

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ALT. STANDARDS	12/17/2020
PRELIMINARY SITE PLAN	01/12/2021
COUNTY COMMENTS	04/05/2021
ISSUE FOR BID	06/04/2021

DRAWN BY: INGENIUM

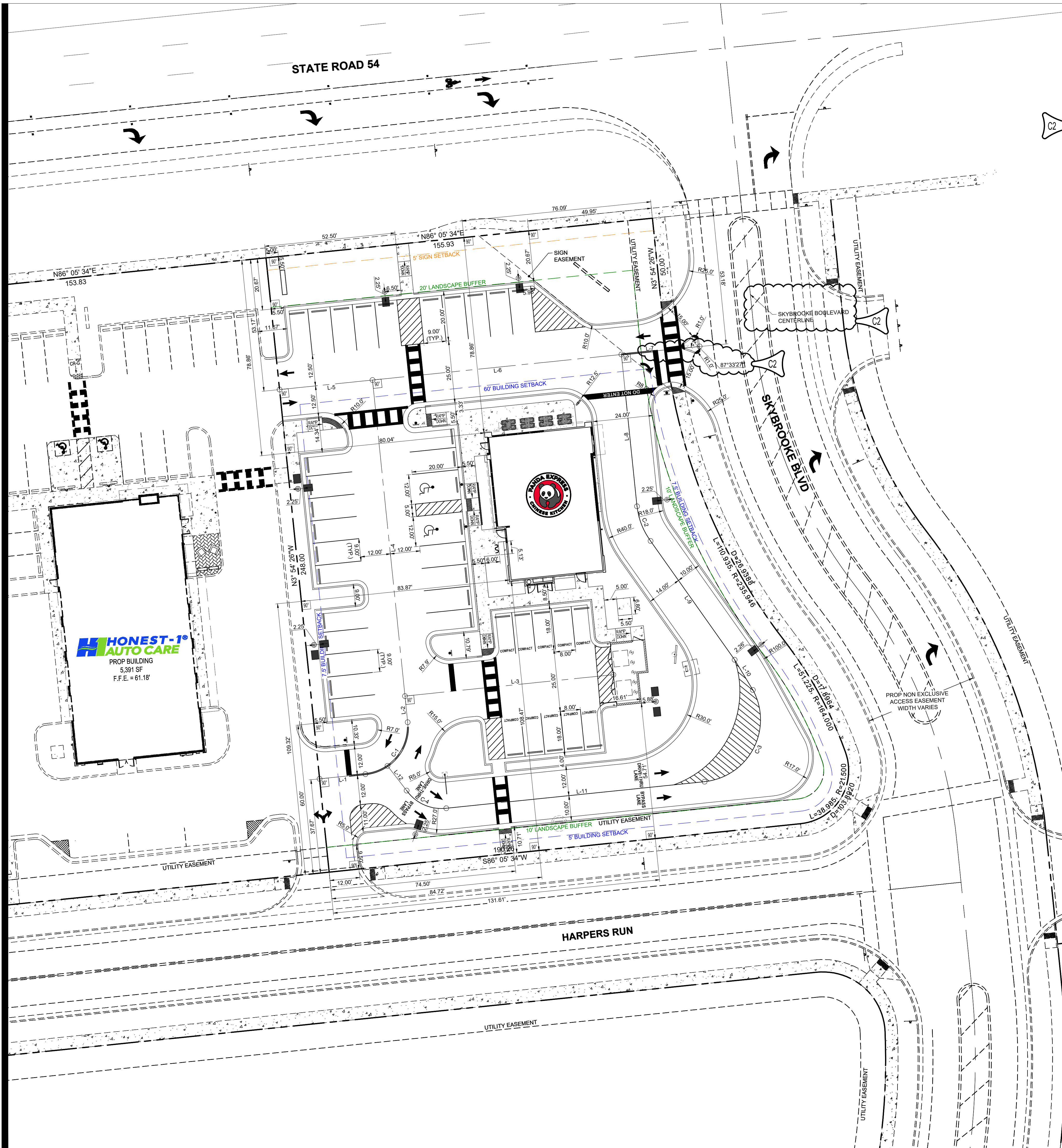
PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



SITE PLAN

C03.0

TRUE WARM & WELCOME 2300



LINE TABLE				
LINE #	LENGTH	DIRECTION	START POINT	END POINT
L-1	18.50'	N86°05'34"E	487789.17, 1403475.51	487807.62, 1403476.77
L-2	10.55'	S03°54'26"E	487824.56, 1403507.54	487825.28, 1403497.02
L-3	84.11'	S86°05'34"W	487908.48, 1403513.28	487824.56, 1403507.54
L-4	127.62'	N03°54'26"W	487824.56, 1403507.54	487815.87, 1403634.87
L-5	37.50'	N86°05'34"E	487778.46, 1403632.31	487815.87, 1403634.87
L-6	100.48'	N86°05'34"E	487815.87, 1403634.87	487916.09, 1403641.71
L-7	31.57'	N86°05'34"E	487916.09, 1403641.71	487947.59, 1403643.86
L-8	61.31'	S03°54'26"E	487916.09, 1403641.71	487920.27, 1403580.54
L-9	58.47'	S33°19'17"E	487925.23, 1403566.45	487957.35, 1403517.59
L-10	14.13'	S29°09'01"E	487957.34, 1403517.60	487964.22, 1403505.26
L-11	104.25'	S86°05'34"W	487943.60, 1403469.07	487839.60, 1403461.96
L-12	12.47'	N35°47'11"W	487823.90, 1403469.64	487816.61, 1403479.75

CURVE TABLE					
CURVE #	LENGTH	RADIUS	DELTA	CHORD LENGTH	CHORD BEARING
C-1	29.85'	19.00'	90.0000	26.87'	N41°05'34"E
C-2	15.12'	28.00'	30.9413	14.94'	S19°22'40"E
C-3	49.24'	25.00'	112.8401	41.66'	N29°40'22"E
C-4	18.35'	17.01'	61.8088	17.47'	S63°56'11"E

STAKING NOTES

1. ALL RADII ARE 3.0' UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB UNLESS OTHERWISE NOTED.
3. ALL SITE LIGHTING POLE DIMENSIONS ARE TO THE CENTER OF THE POLE, UNLESS OTHERWISE NOTED.
4. STAKING OF STRIPING IS TO THE CENTERLINE OF THE STRIPE, UNLESS OTHERWISE NOTED.
5. SEE SHEET C01.1 FOR GENERAL NOTES.



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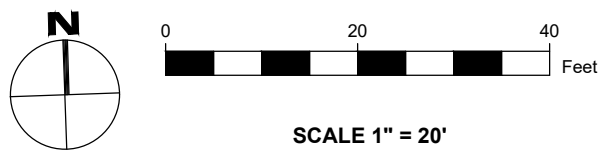
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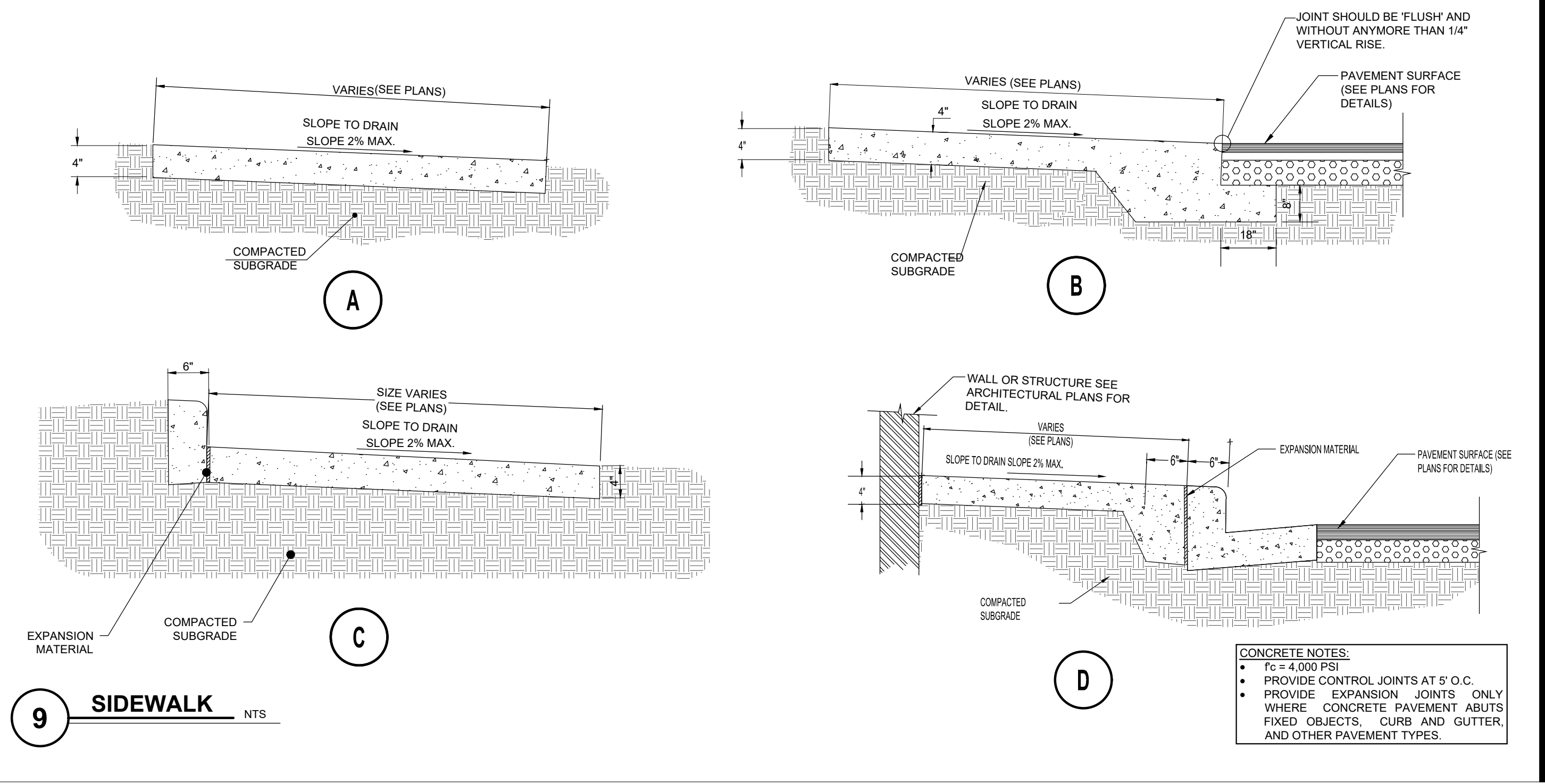
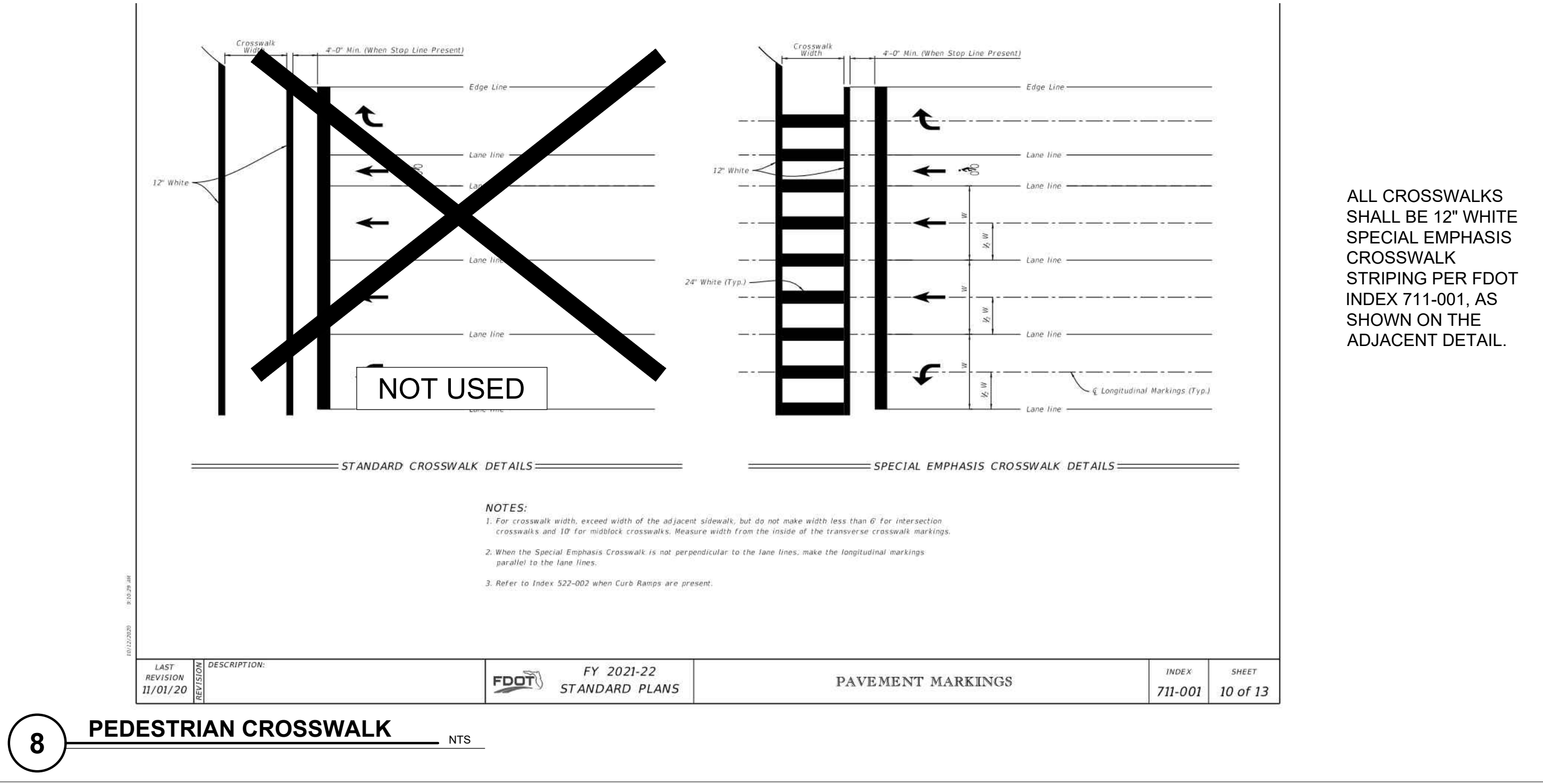
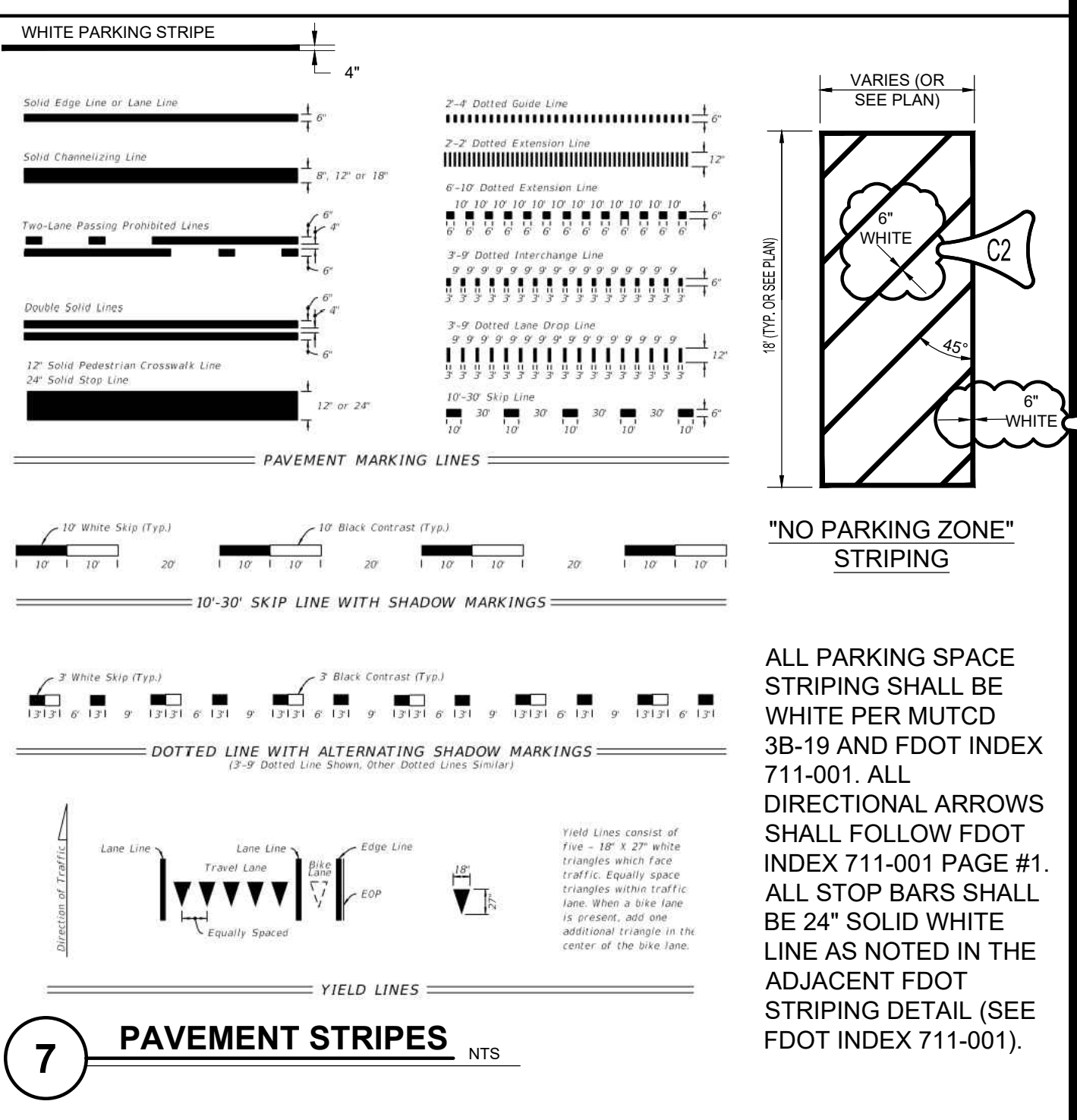
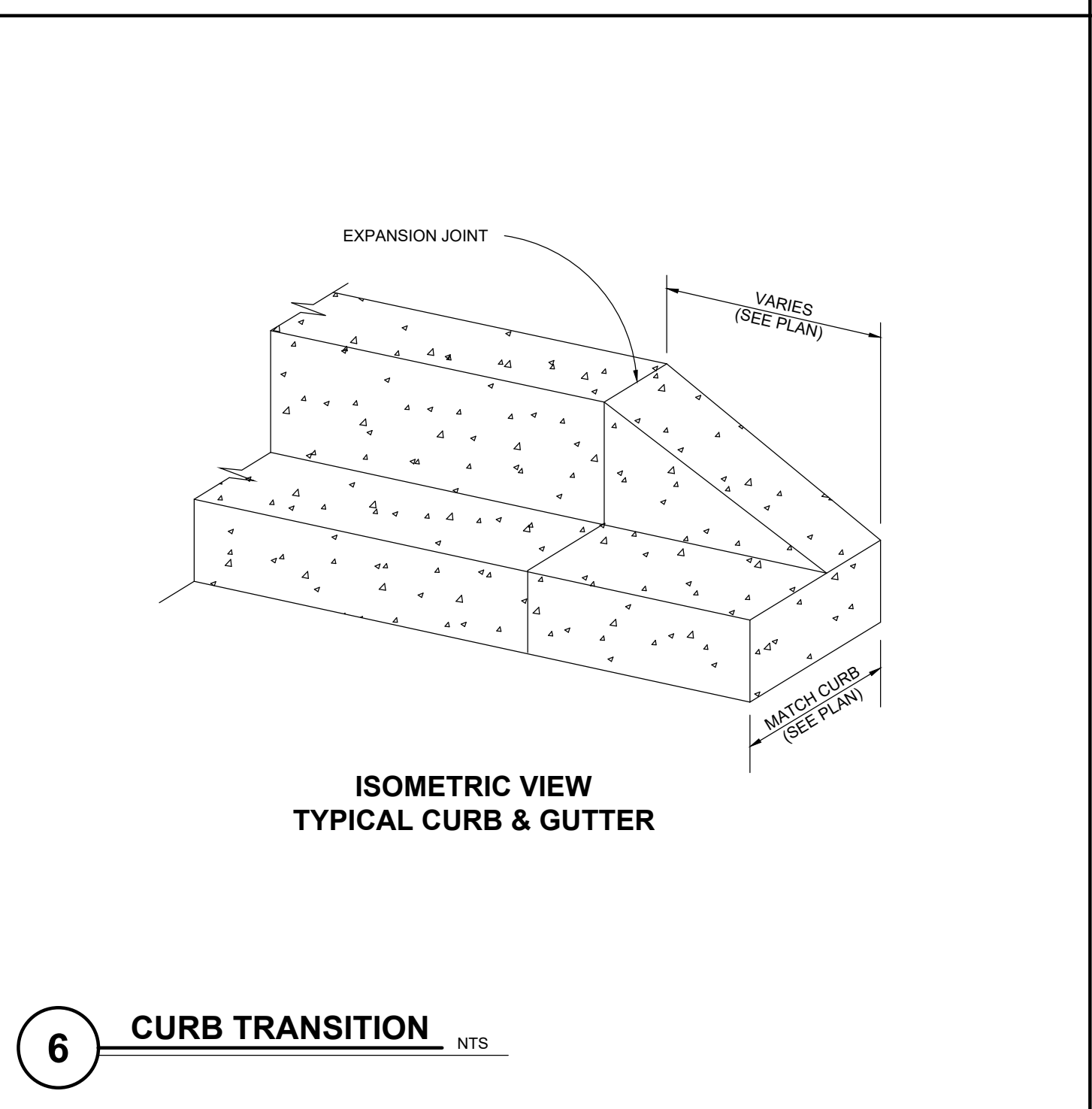
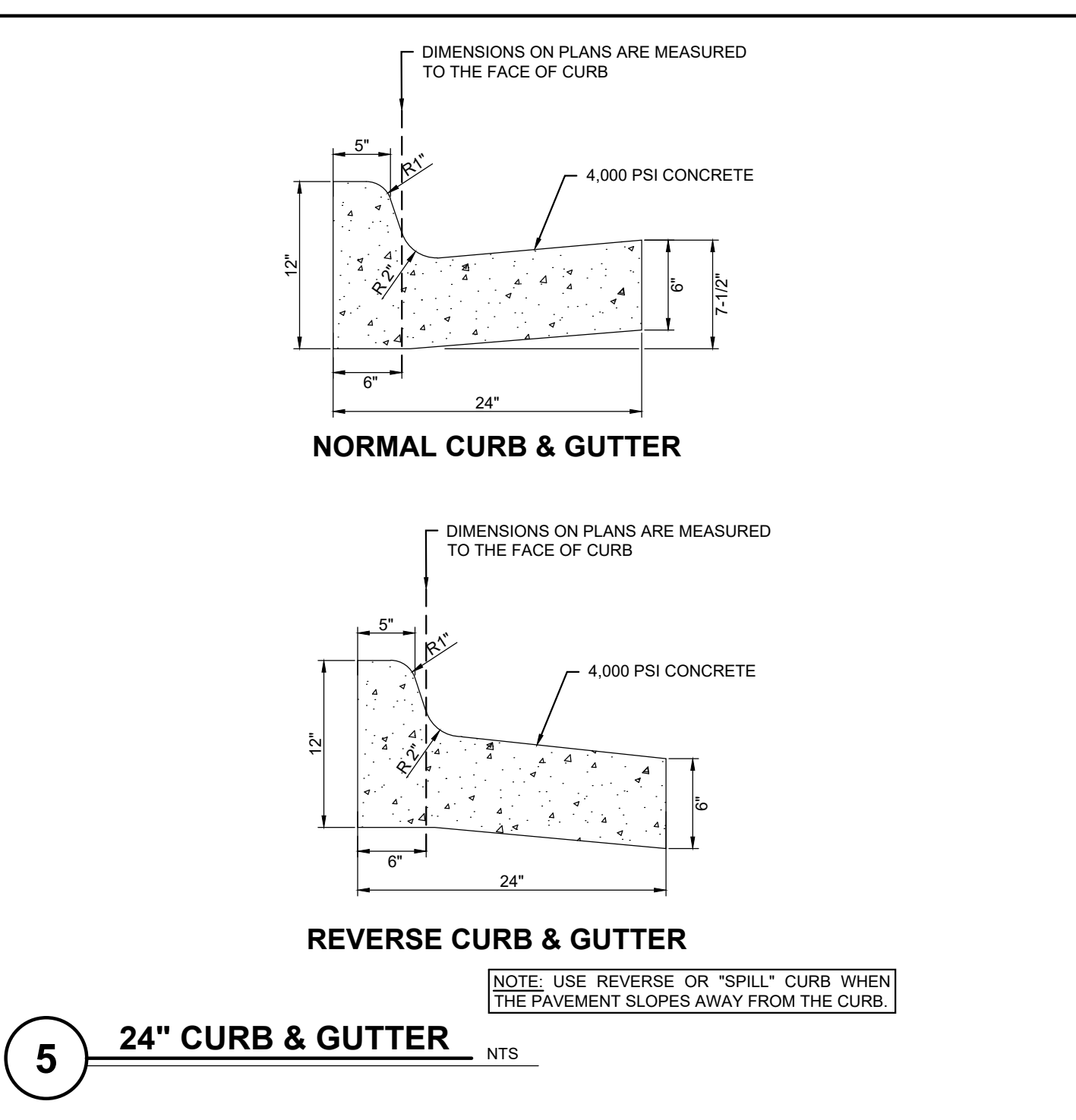
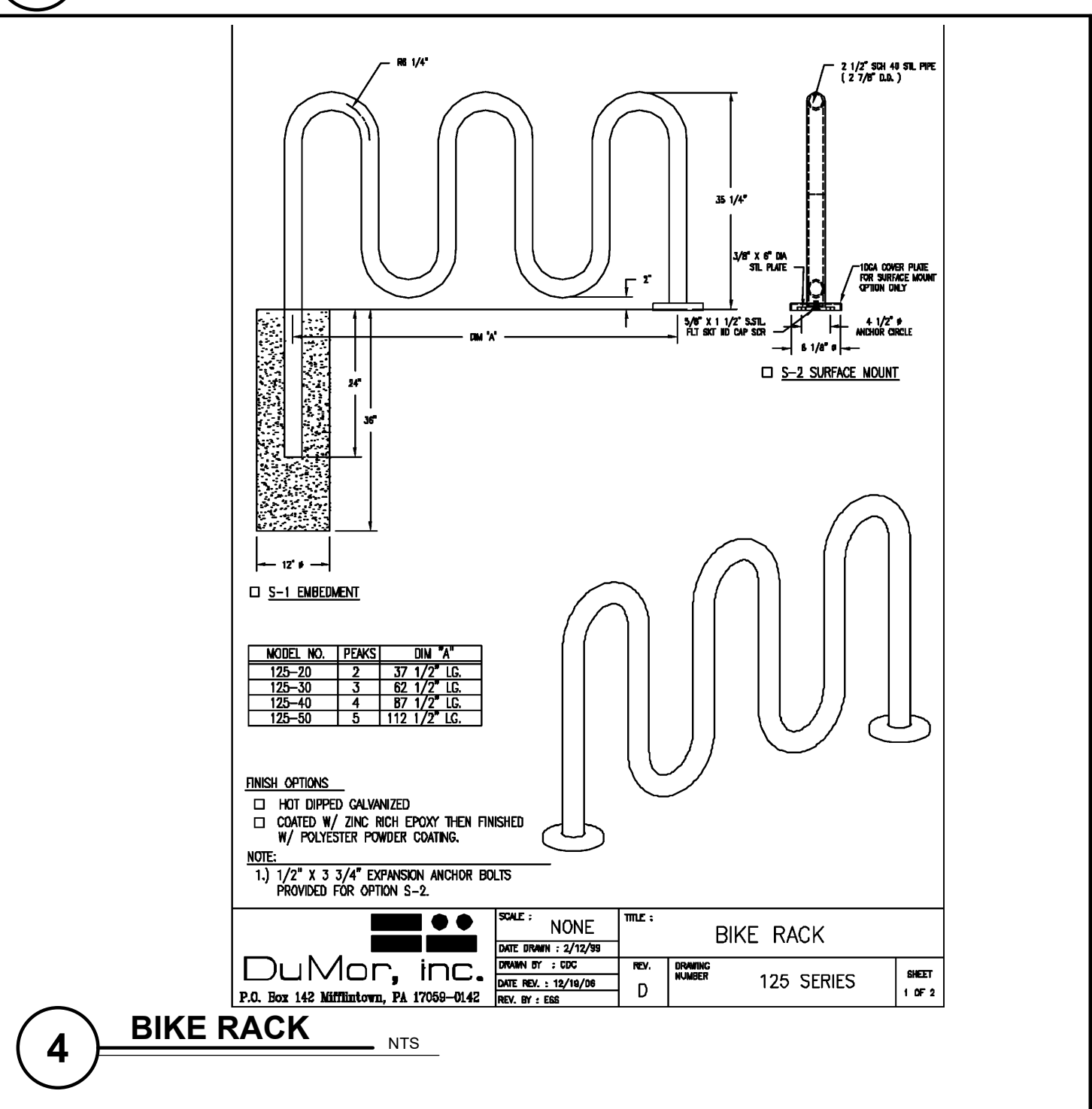
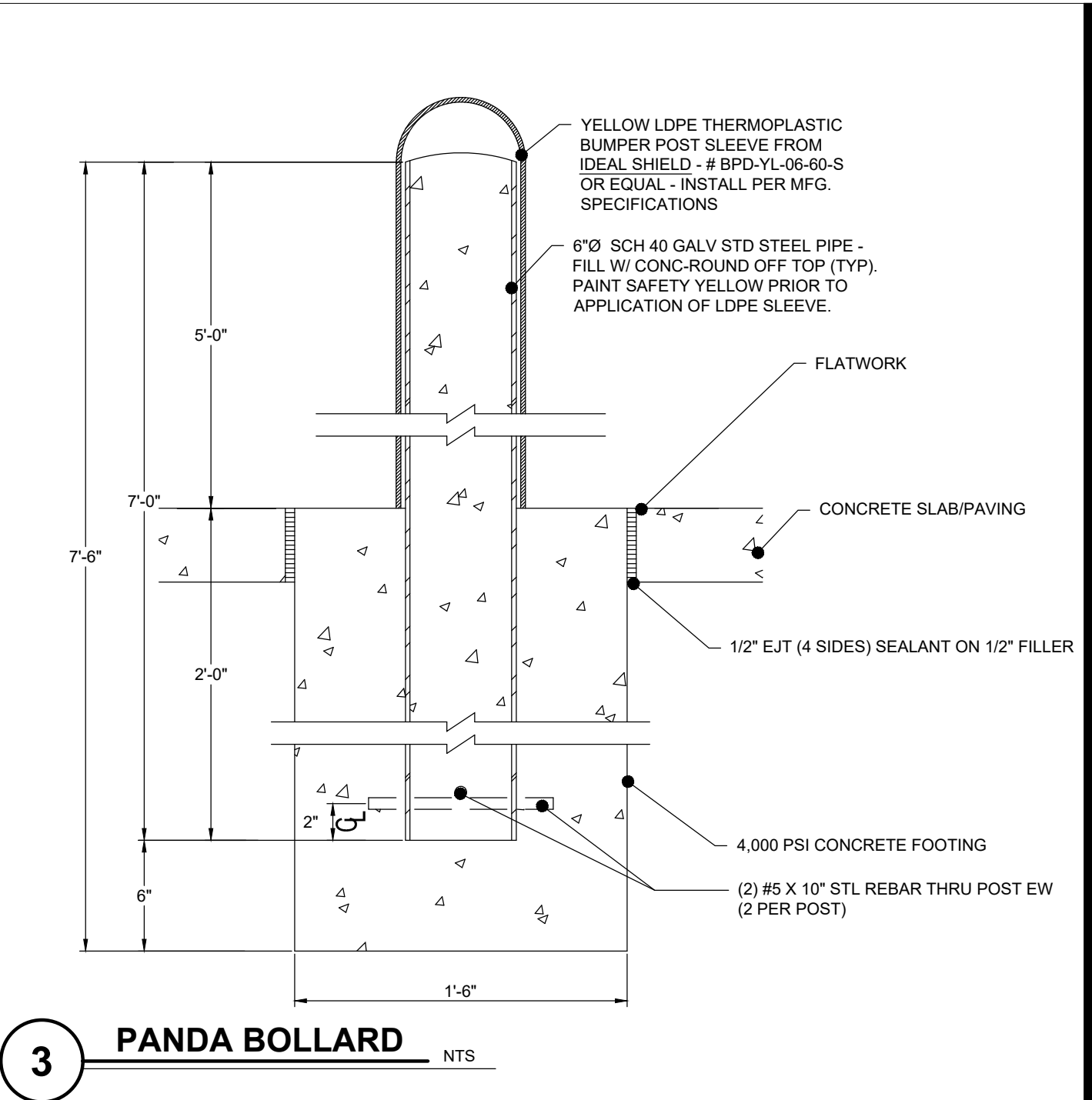
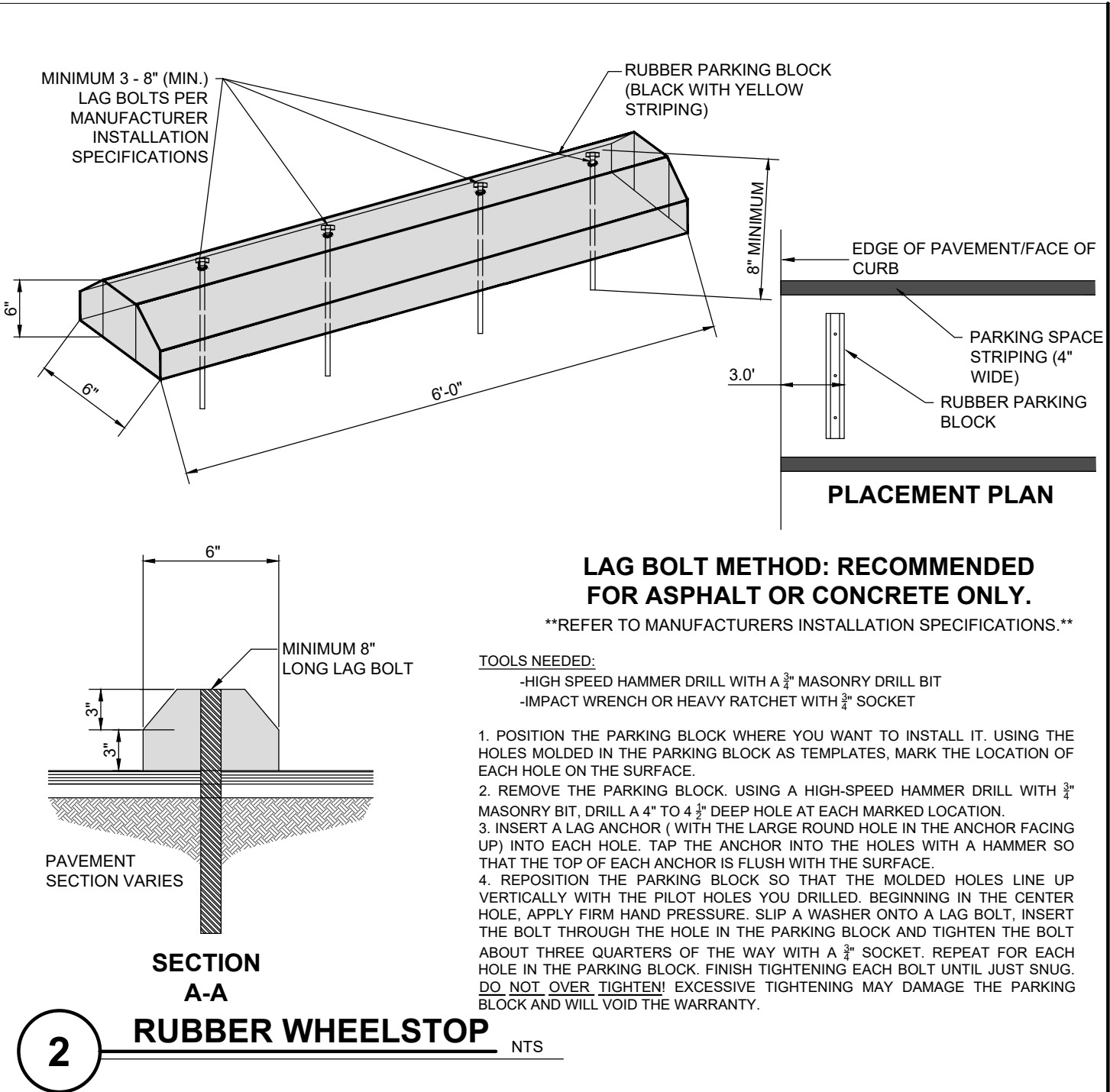
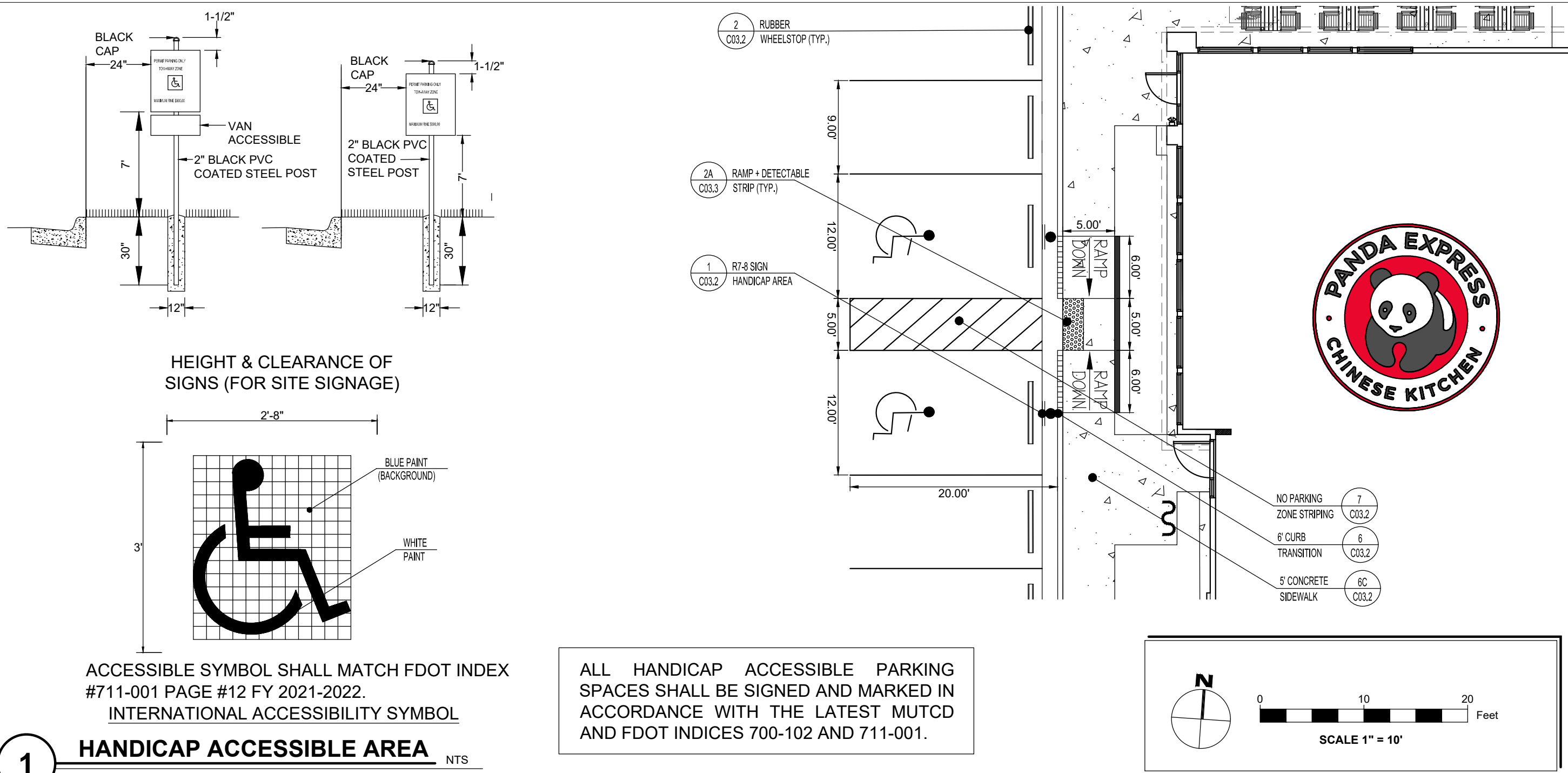
CONTRACTOR SHALL INSTALL GENERAL UTILITY CONDUITS TO PLANTER AREAS AROUND BUILDING AND PATIO.

24-HOUR CONTACT:
JOE CELENTO
(912) 272-4811



STAKING PLAN

C03.1



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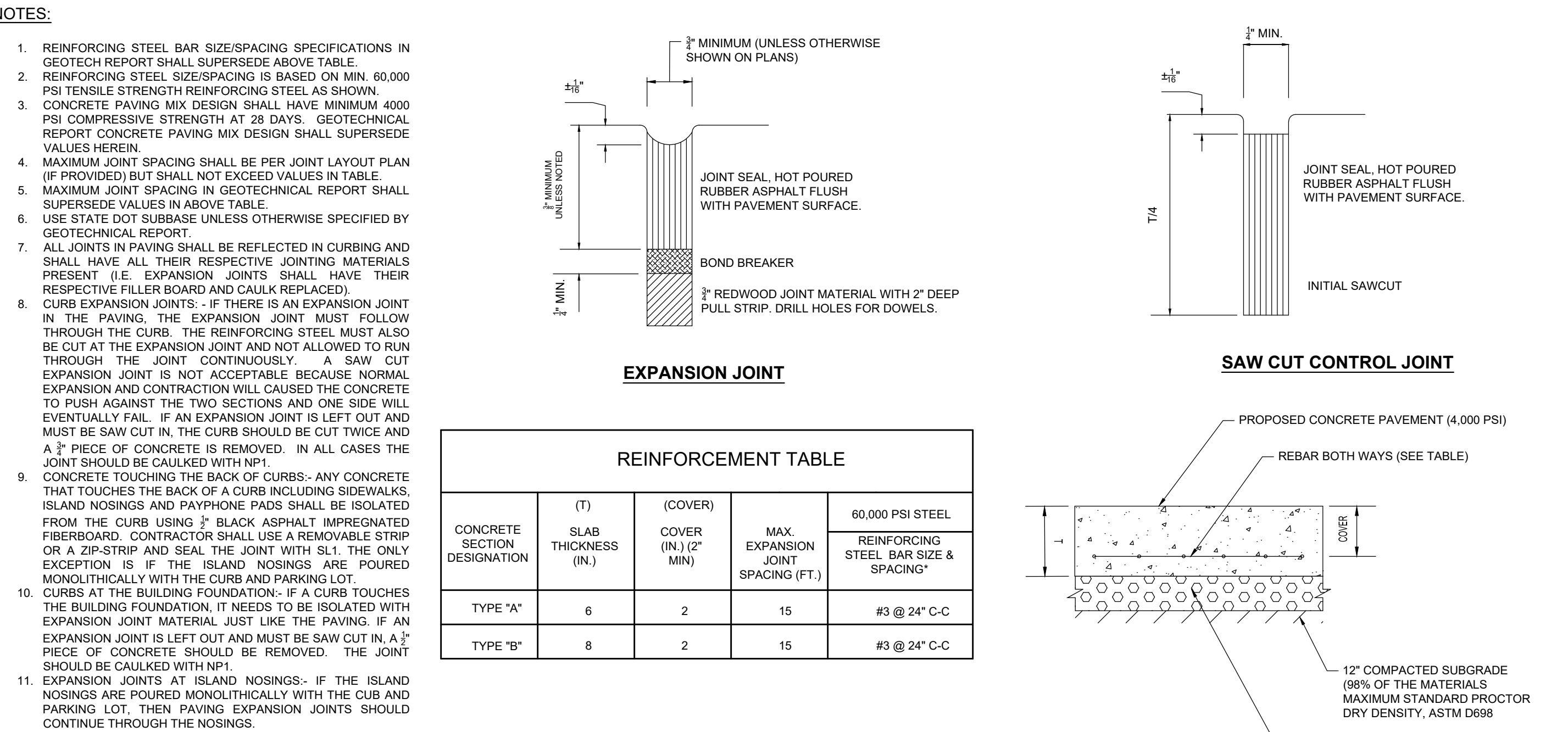
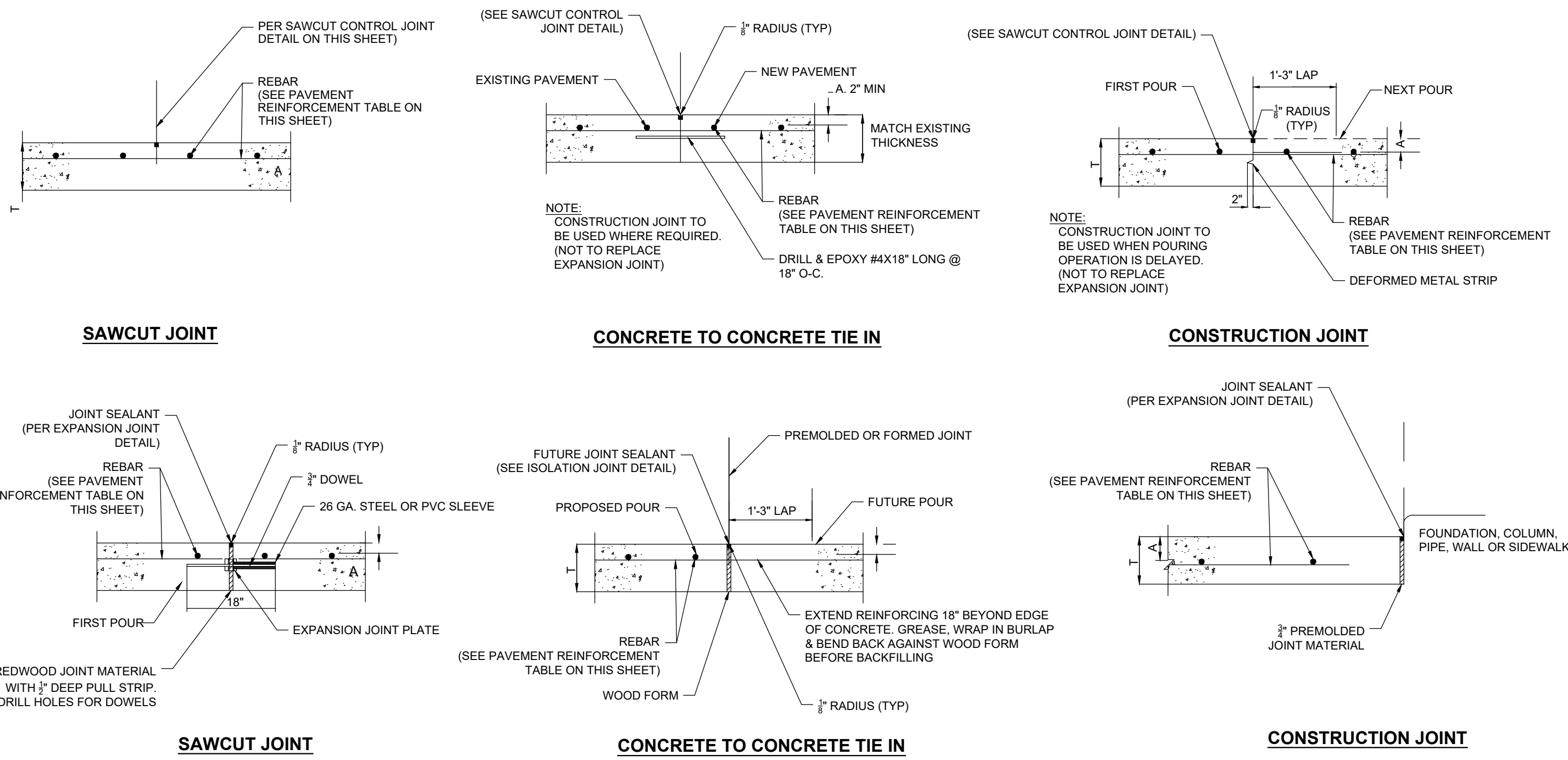
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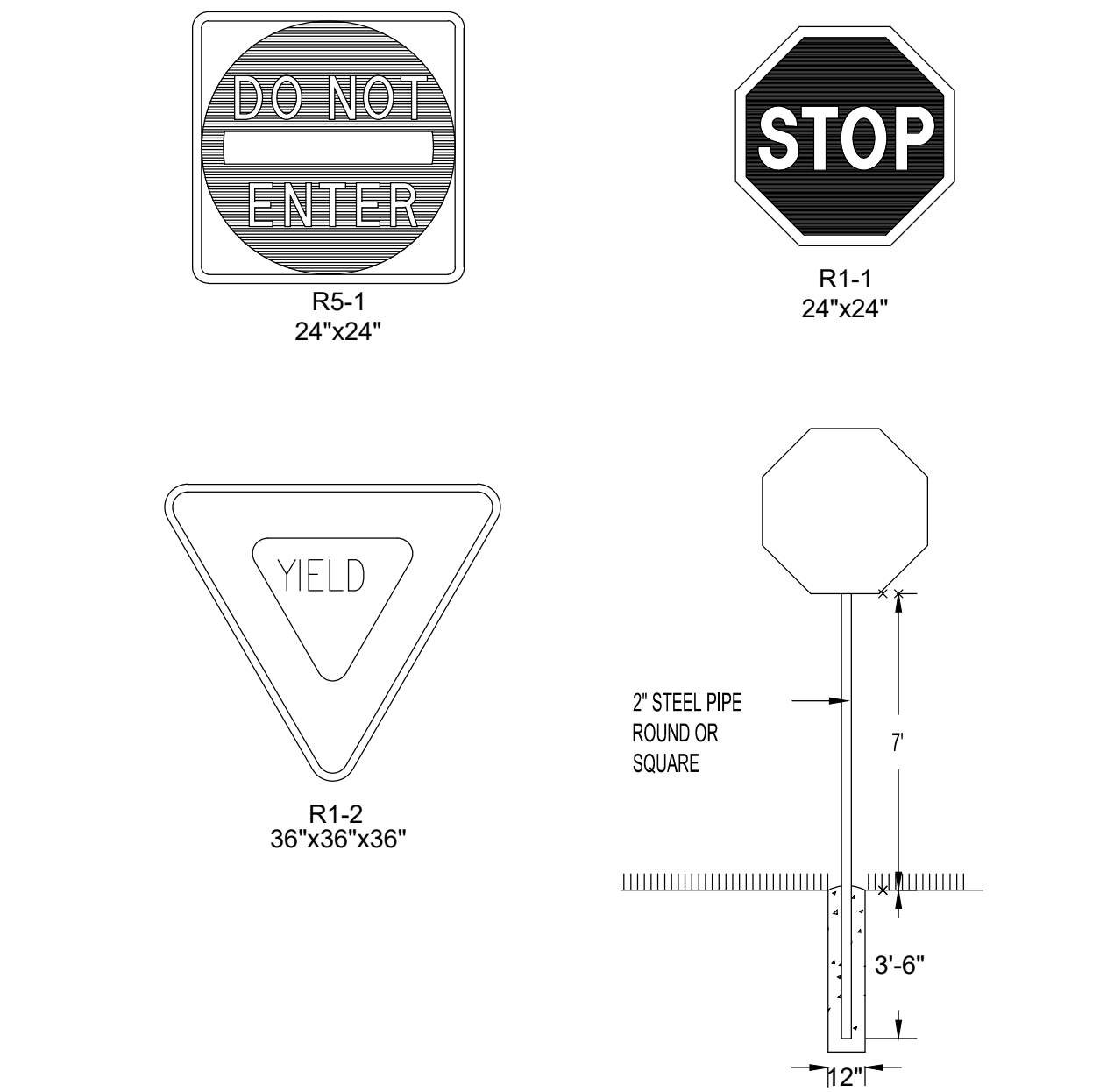


HARDSCAPE DETAILS I

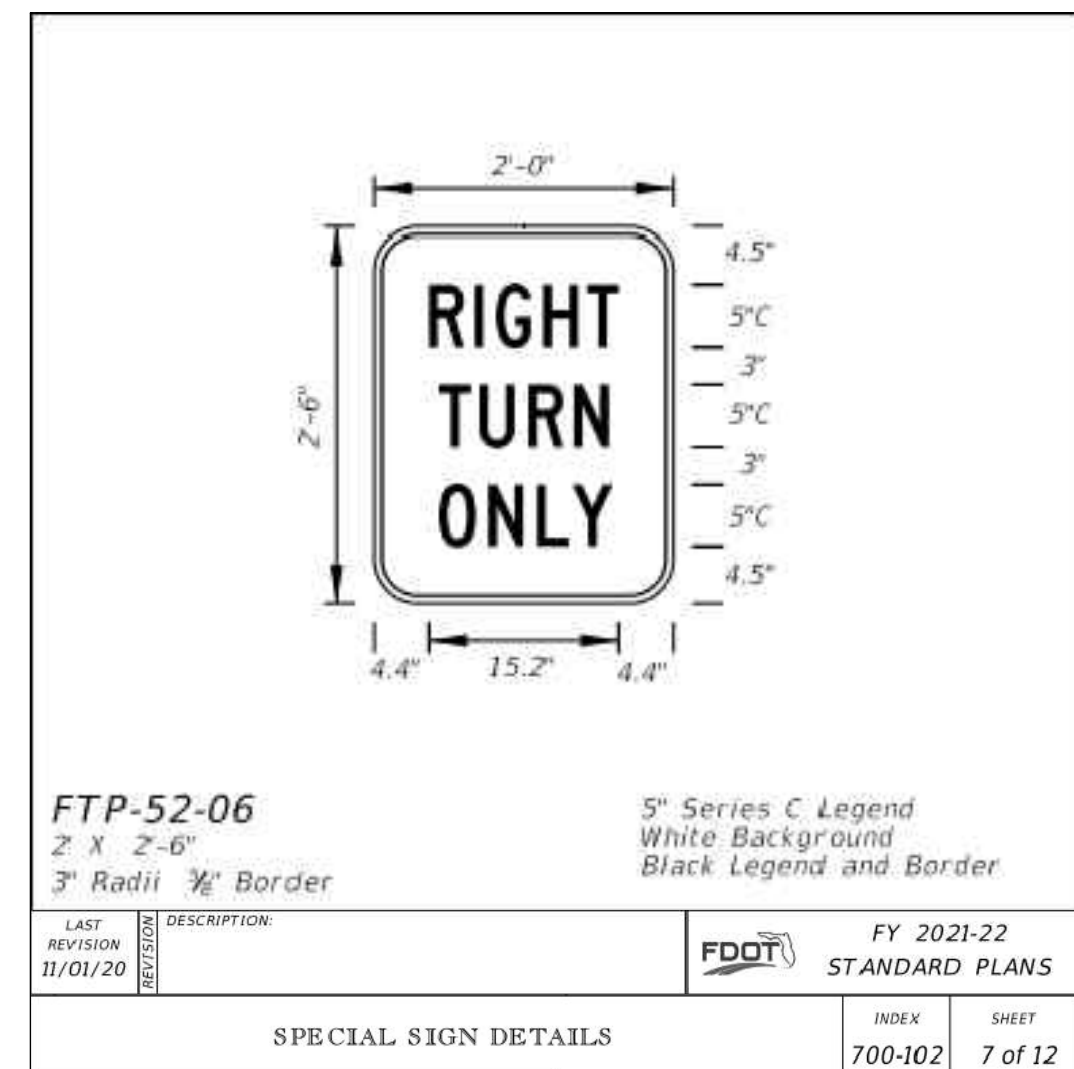
C03.2



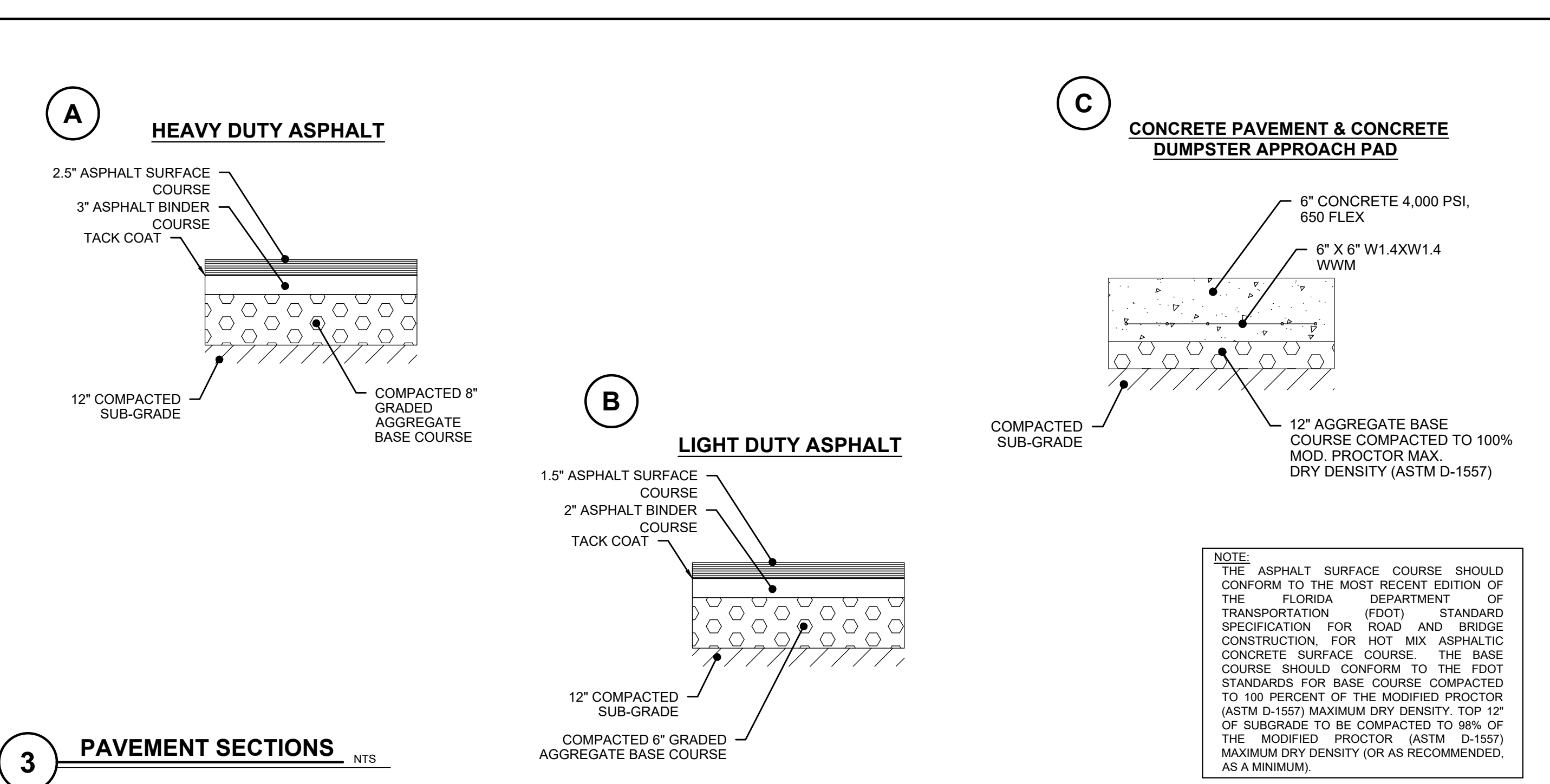
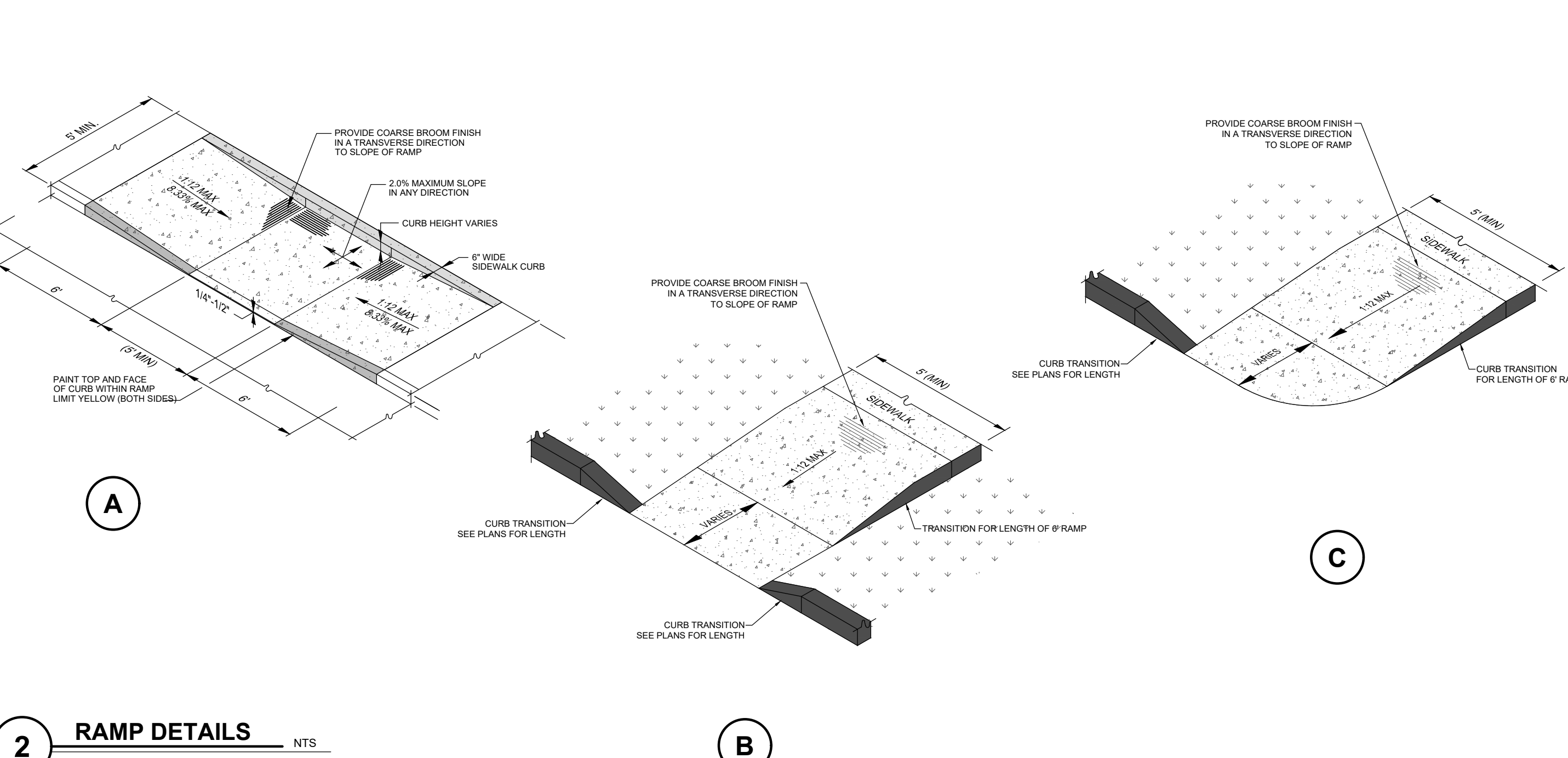
1 CONCRETE SECTIONS NTS



4 SITE SIGNAGE NTS



ALL SIGNS ON PROPERTY SHALL MATCH THE STANDARDS OF THE LATEST MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND FDOT INDICES 700-010 AND 711-001.



3 PAVEMENT SECTIONS NTS

5 DETAIL (NOT USED) NTS

6 DETAIL (NOT USED) NTS



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HARDSCAPE
DETAILS II

C03.3

TRUE WARM & WELCOME 2300



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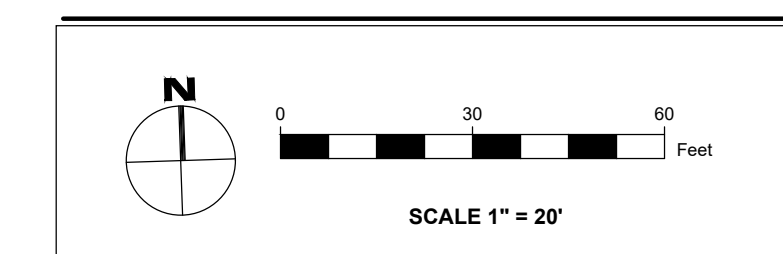
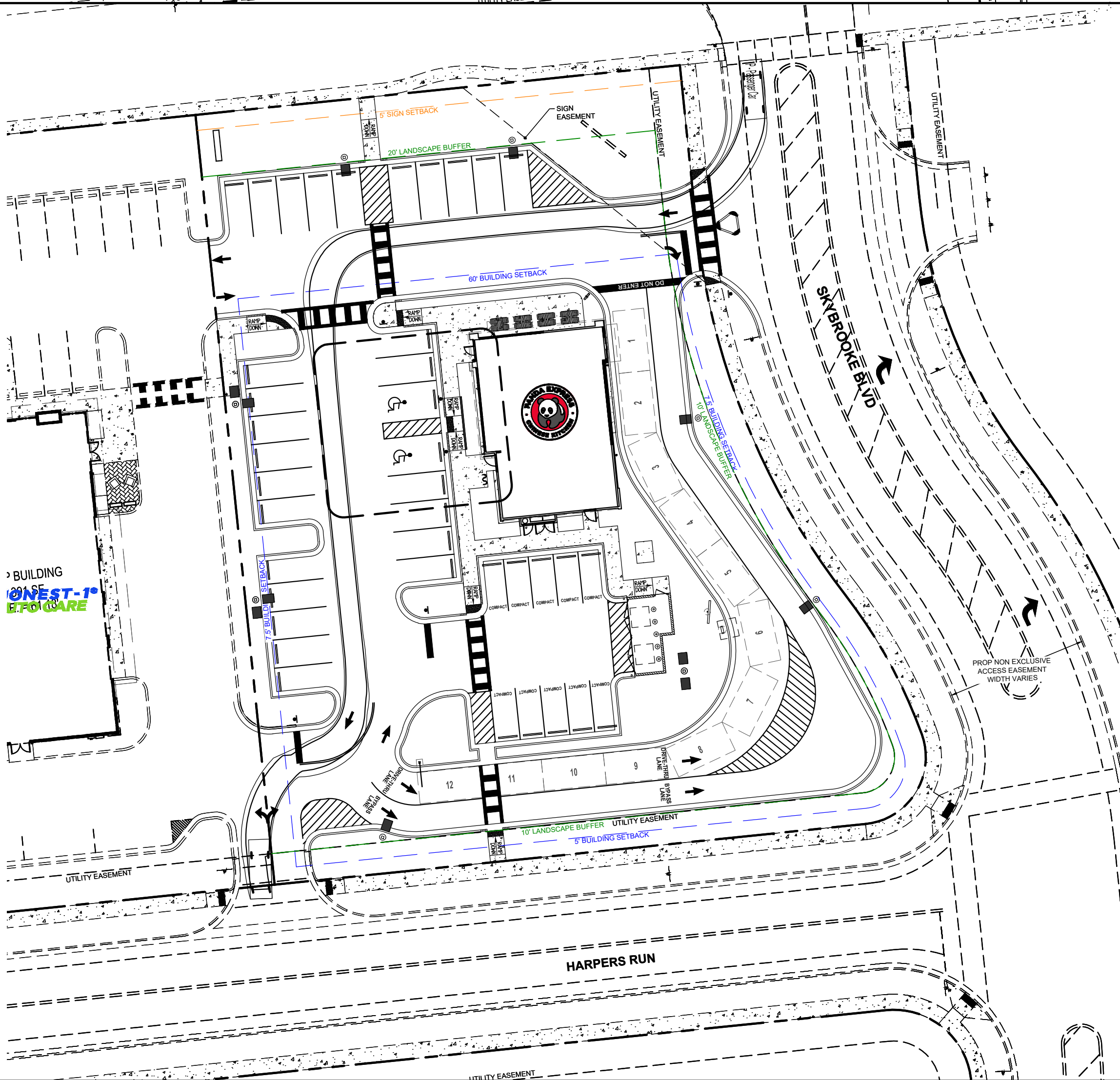
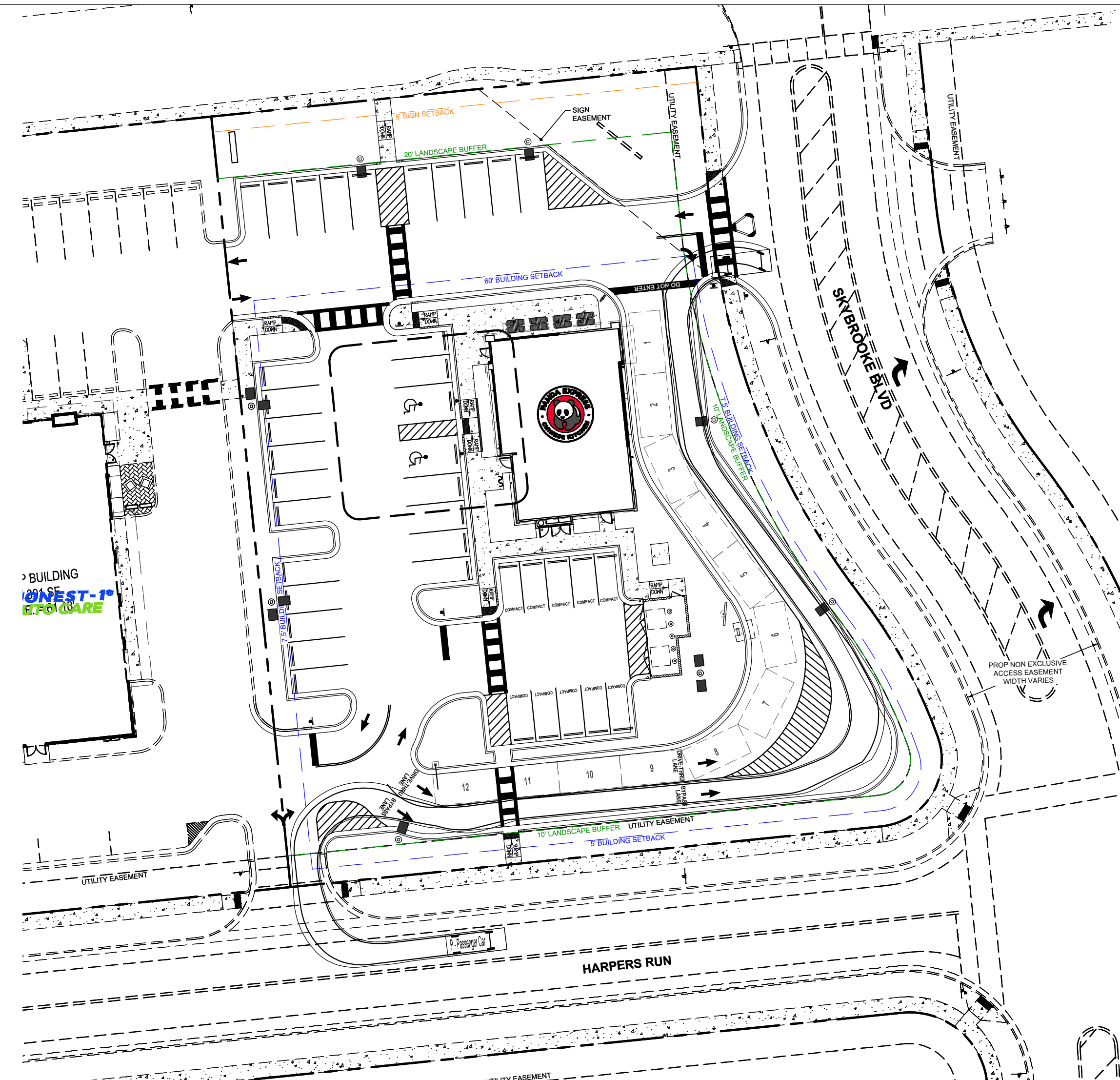
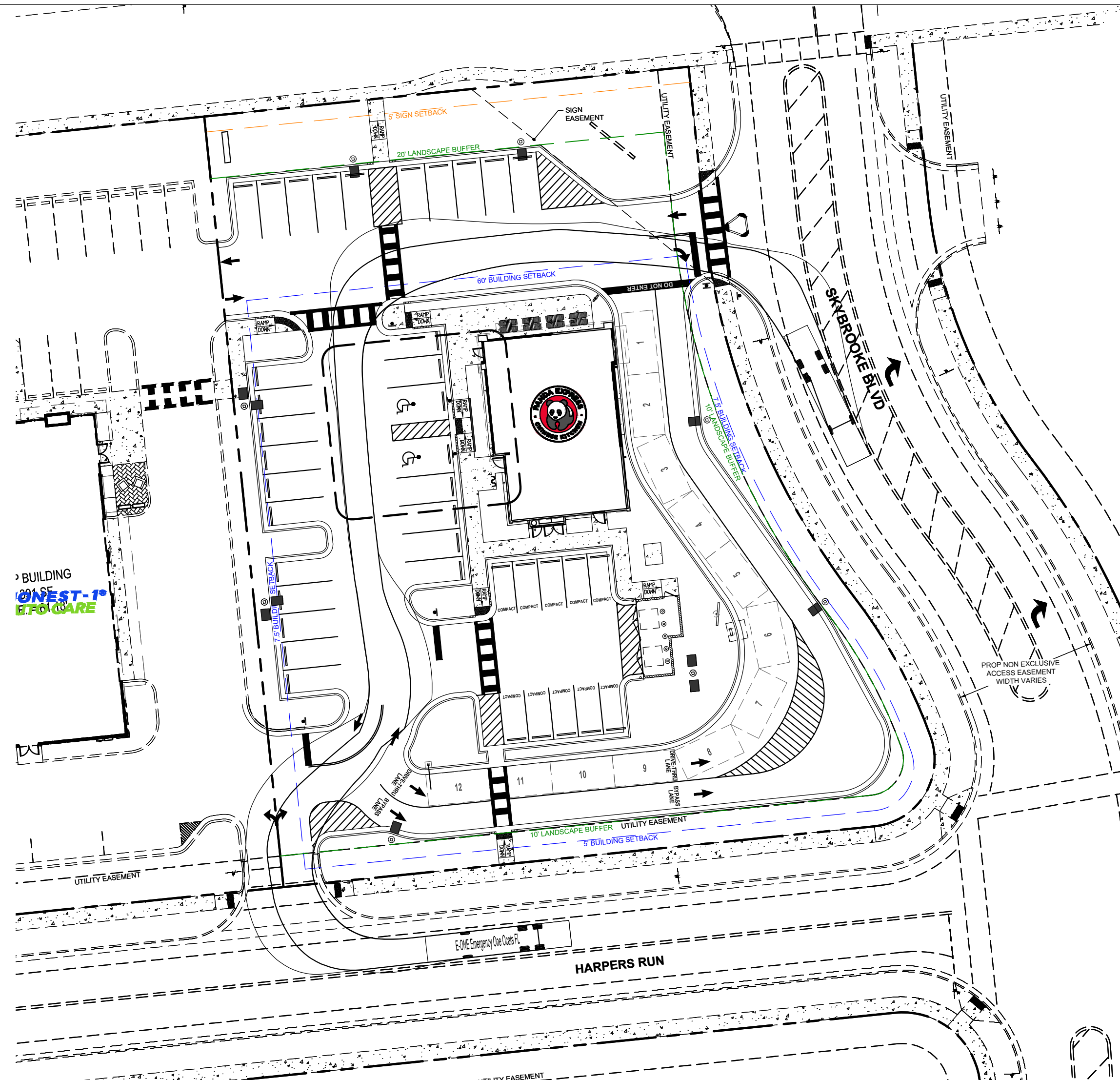
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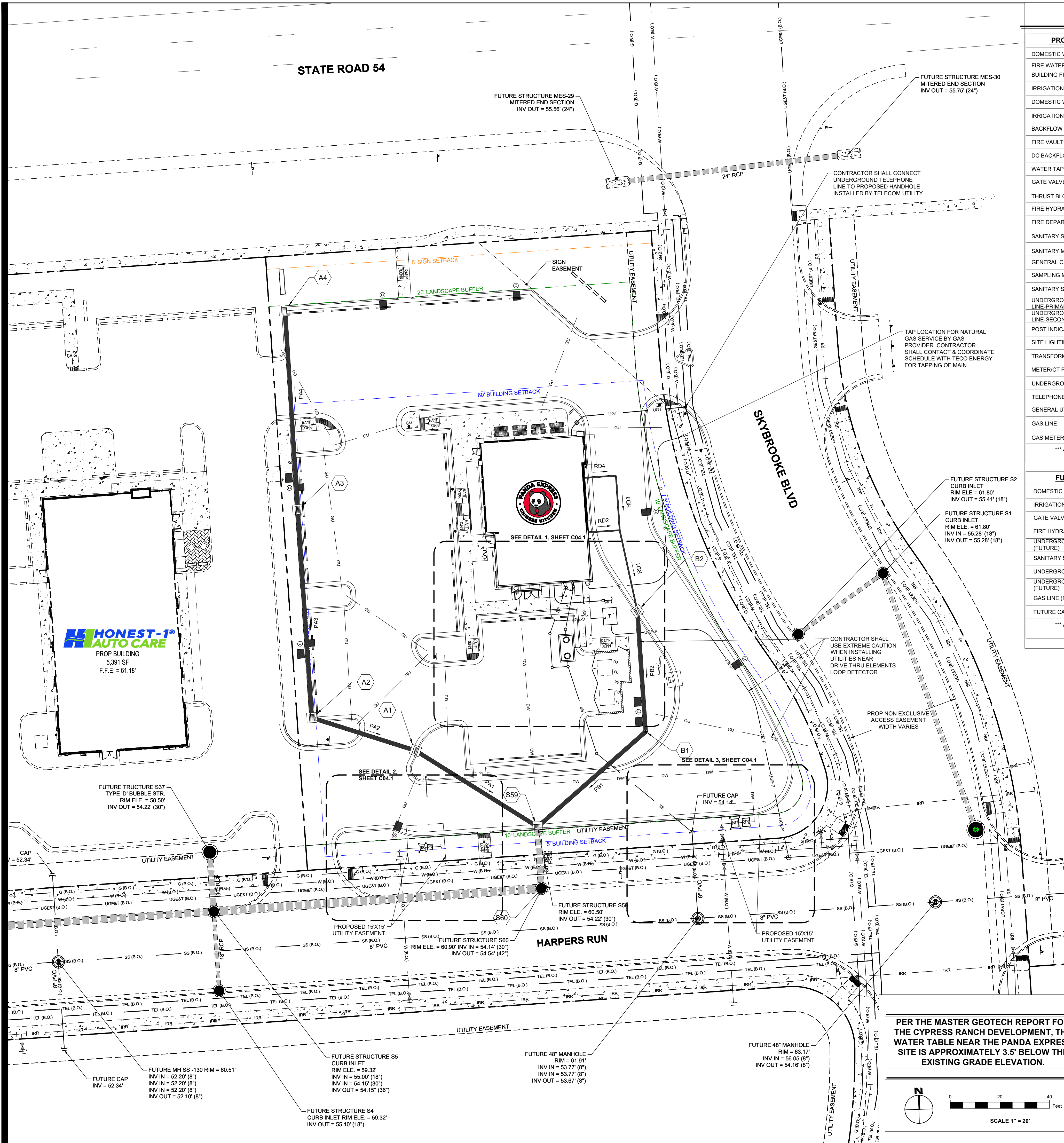


VEHICLE TRACKING
DIAGRAMS

C03.4

TRUE WARM & WELCOME 2300





UTILITY LEGEND

PROPOSED UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE	— DW — DW —	1-1/2" PVC (COLOR CODED BLUE)
FIRE WATER LINE	— FW — FW —	NOT APPLICABLE
BUILDING FIRE SPRINKLER LINE	— FWS — FWS —	NOT APPLICABLE
IRRIGATION WATER LINE	— IRR — IRR —	1" POLY (COLOR CODED PURPLE)
DOMESTIC WATER METER (WM)	— WM —	DETAIL 6, SHEET C04.2
IRRIGATION METER (IRR)	— IRR —	DETAIL 4, SHEET C04.2
BACKFLOW PREVENTER (RPZ)	— RPZ —	DETAIL 7, SHEET C04.2
FIRE VAULT (DDC)	— DDC —	NOT APPLICABLE
DC BACKFLOW PREVENTER	— DCBP —	DETAIL 5, SHEET C04.2
WATER TAP OR TEE	— T —	NOT APPLICABLE
GATE VALVE (GV)	— GV —	NOT APPLICABLE
THRUST BLOCK (TB)	— TB —	NOT APPLICABLE
FIRE HYDRANT (FH)	— FH —	NOT APPLICABLE
FIRE DEPARTMENT CONNECTION (FDC)	— FDC —	NOT APPLICABLE
SANITARY SEWER (SS)	— SS — SS —	2" & 8" PVC (COLOR CODED GREEN)
SANITARY MANHOLE (SSMH)	— SSMH —	NOT APPLICABLE
GENERAL CLEAN OUT (Co)	— Co —	DETAIL 2, SHEET C04.2
SAMPLING MANHOLE	— SM —	NOT APPLICABLE
SANITARY STRUCTURE NUMBER	— SN —	SEE PLANS
UNDERGROUND ELECTRIC LINE-PRIMARY	— UGEP — UGEP —	(2) 5" PVC
UNDERGROUND ELECTRIC LINE-SECONDARY	— UGES — UGES —	(2) 5" PVC
POST INDICATOR VALVE	— PIV —	NOT APPLICABLE
SITE LIGHTING POLE	— LP —	SEE PLANS
TRANSFORMER PAD	— TP —	DETAIL 8 SHEET C04.2
METER/CT PEDESTAL	— MCT —	SEE PLANS
UNDERGROUND TELEPHONE LINE	— UGT — UGT —	(2) 4" PVC
TELEPHONE CABLE PULL BOX	— CB —	SEE PLANS
GENERAL UTILITY CONDUIT	— GU — GU —	4" PVC
GAS LINE	— G —	***
GAS METERS	— M —	SEE PLANS

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

FUTURE UTILITY	LINETYPE/SYMBOL	REFERENCE
DOMESTIC WATER LINE (FUTURE)	— W (B.O.) —	SIZE VARIES
IRRIGATION LINE (FUTURE)	— IRR (B.O.) —	SIZE VARIES
GATE VALVE (FUTURE)	— GV —	SIZE VARIES
FIRE HYDRANT (FUTURE)	— FH —	SEE PLANS BY OTHERS
UNDERGROUND ELECTRIC LINE (FUTURE)	— UGE (B.O.) —	SIZE VARIES
SANITARY SEWER (FUTURE)	— SS (B.O.) —	SIZE VARIES
UNDERGROUND CABLE LINE (FUTURE)	— FO (B.O.) —	SIZE VARIES
UNDERGROUND TELEPHONE LINE (FUTURE)	— TEL (B.O.) —	SIZE VARIES
GAS LINE (FUTURE)	— G (B.O.) —	SIZE VARIES
FUTURE CAP	— C —	SEE PLANS BY OTHERS

*** ALL UTILITIES SHALL BE INSTALLED ACCORDING TO UTILITY PROVIDERS AND JURISDICTION STANDARDS AND SPECIFICATIONS. ***

GENERAL UTILITY NOTES

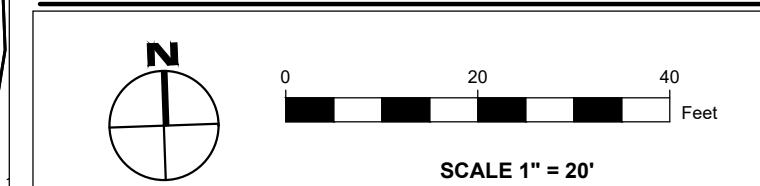
- SEE SHEET C01.1 FOR GENERAL NOTES.
- SEE MEP PLANS FOR CONTINUATION OF ALL UTILITIES INTO BUILDING.
- SANITARY LATERALS SHALL HAVE A MINIMUM FALL OF 1.00%.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND THEIR LOCATIONS AND ELEVATIONS PRIOR TO STARTING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NPFA CODES SHALL BE ADHERED TO.
- THE FINAL LOCATION OF FIRE HYDRANTS, VALVES, WATER LINES, BACKFLOW PREVENTERS, ETC. SHALL BE DETERMINED DURING CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CHANGES TO LOCATION OR CONFIGURATION. NPFA CODES SHALL BE ADHERED TO.
- THE CONTRACTOR SHALL CONTACT PUBLIC UTILITIES INSPECTIONS AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITY.
- ALL WORK TO BE DONE IN STRICT ACCORDANCE WITH LOCAL GOVERNING CODES.
- UTILITY CONDUIT MATERIAL FOR ELECTRIC, TELEPHONE, AND CABLE SHALL BE INSTALLED PER UTILITY PROVIDER SPECIFICATIONS.
- CONTRACTOR TO BUILD CONCRETE TRANSFORMER PAD AND INSTALL SCHEDULE 80 PVC CONDUIT AND PULL STRING WITH SWEEPING BENDS.
- PASCO COUNTY SHALL NOT OWN OR MAINTAIN ANY WATER LINES, SEWER LINES, OR FACILITIES CONSTRUCTED ON PRIVATE PROPERTY.
- ALL MATERIALS AND LABOR SHALL MEET THE SPECIFICATIONS REQUIRED BY THE COUNTY. ALL CONSTRUCTION SHALL BE PERFORMED UNDER THE INSPECTION OF THE COUNTY AND IN STRICT COMPLIANCE WITH THE STANDARDS OF THE COUNTY DESIGN STANDARDS.
- ALL NEWLY INSTALLED WATER DISTRIBUTION MAINS AND SERVICE LATERALS SHALL BE COLOR CODED BLUE.
- ALL NEWLY INSTALLED FORCE MAINS AND GRAVITY LINES SHALL BE COLOR CODED GREEN.
- ALL NEWLY INSTALLED RECLAIM WATER DISTRIBUTION MAINS AND SERVICE LATERALS SHALL BE COLOR CODED PURPLE.

CONTRACTOR SHALL COORDINATE AND VERIFY LOCATION OF ALL SIGNAGE WITH OWNER PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL COORDINATE AND ADJUST LOCATION OF LOOP DETECTORS TO AVOID UTILITY CONFLICTS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL PROTECT ALL ITEMS OUTSIDE LIMITS OF CONSTRUCTION UNLESS OTHERWISE NOTED IN THE CONSTRUCTION PLANS OR SPECIFICATIONS.

PER THE MASTER GEOTECH REPORT FOR THE CYPRESS RANCH DEVELOPMENT, THE WATER TABLE NEAR THE PANDA EXPRESS SITE IS APPROXIMATELY 3.5' BELOW THE EXISTING GRADE ELEVATION.



UTILITY INFORMATION

WATER				
LINE EXTENSION TO PROPERTY LINE (PROPERTY LINE TO BUILDING)	OC	MASTER DEVELOPER	PANDA EXPRESS	UTILITY
TAPPING THE MAIN				
WATER VAULT				
WATER (METER) PIT				
DOMESTIC METER				
FIRE METER				
IRRIGATION METER				
DOMESTIC BFP				
FIRE BFP				
IRRIGATION BFP				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

SANITARY SEWER				
TAPPING OF THE MAIN	OC	MASTER DEVELOPER	PANDA EXPRESS	UTILITY
LINE EXTENSION (INSIDE PROPERTY)				
OBTAINING EASEMENTS				
OBTAINING ROW PERMIT				

ELECTRIC				
PRIMARY CONDUIT	OC	MASTER DEVELOPER	PANDA EXPRESS	UTILITY
PRIMARY CABLE				
PRIMARY FINAL CONNECTION				
TRANSFORMER				
TRANSFORMER PAD				
POLE				
SECONDARY CABLE				
SECONDARY CONDUIT				
SECONDARY FINAL INSPECTION				
METER				
CT CABINET				
CT METER CONDUIT				
SOCKET				
OBTAINING EASEMENTS				
ROW WORK PERMITS				

TELEPHONE				
CONDUIT	OC	MASTER DEVELOPER	PANDA EXPRESS	UTILITY
TRENCH & BACKFILL				
CABLE & WIRE				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

GAS				
TAP	OC	MASTER DEVELOPER	PANDA EXPRESS	UTILITY
PIPING				
TRENCH AND BACKFILL				
METER				
REGULATOR				
OBTAINING EASEMENTS				
OBTAINING ROW WORK PERMITS				

CONTRACTOR SHALL INCLUDE PULL STRING FOR TELECOM SERVICE. LEAVE CONDUIT PROTRUDING OUT OF GROUND MIN 12" AND PAINT ORANGE, TAG WITH FLAG OR OTHER MARKER NOTING LOCATION OF TELEPHONE CONDUIT.

CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES (LOCATIONS AND ELEVATIONS) PRIOR TO STARTING CONSTRUCTION AND ALERT ENGINEER TO ANY DISCREPANCIES IMMEDIATELY.



24-HOUR CONTACT:
JOE CELENTO
(912) 272-4811



PANDA EXPRESS, INC.
1683 WALNUT GROVE AVE.
ROSEMead, CALIFORNIA 91770
TELEPHONE: 626.799.9898
FACSIMILE: 626.372.8268

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C1 1ST COUNTY COMMENTS 04/05/2021
C2 2ND COUNTY COMMENTS 06/04/2021

ISSUE DATE:

ALT. STANDARDS 12/17/2020
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COUNTY COMMENTS 04/05/2021
ISSUE FOR BID 06/04/2021

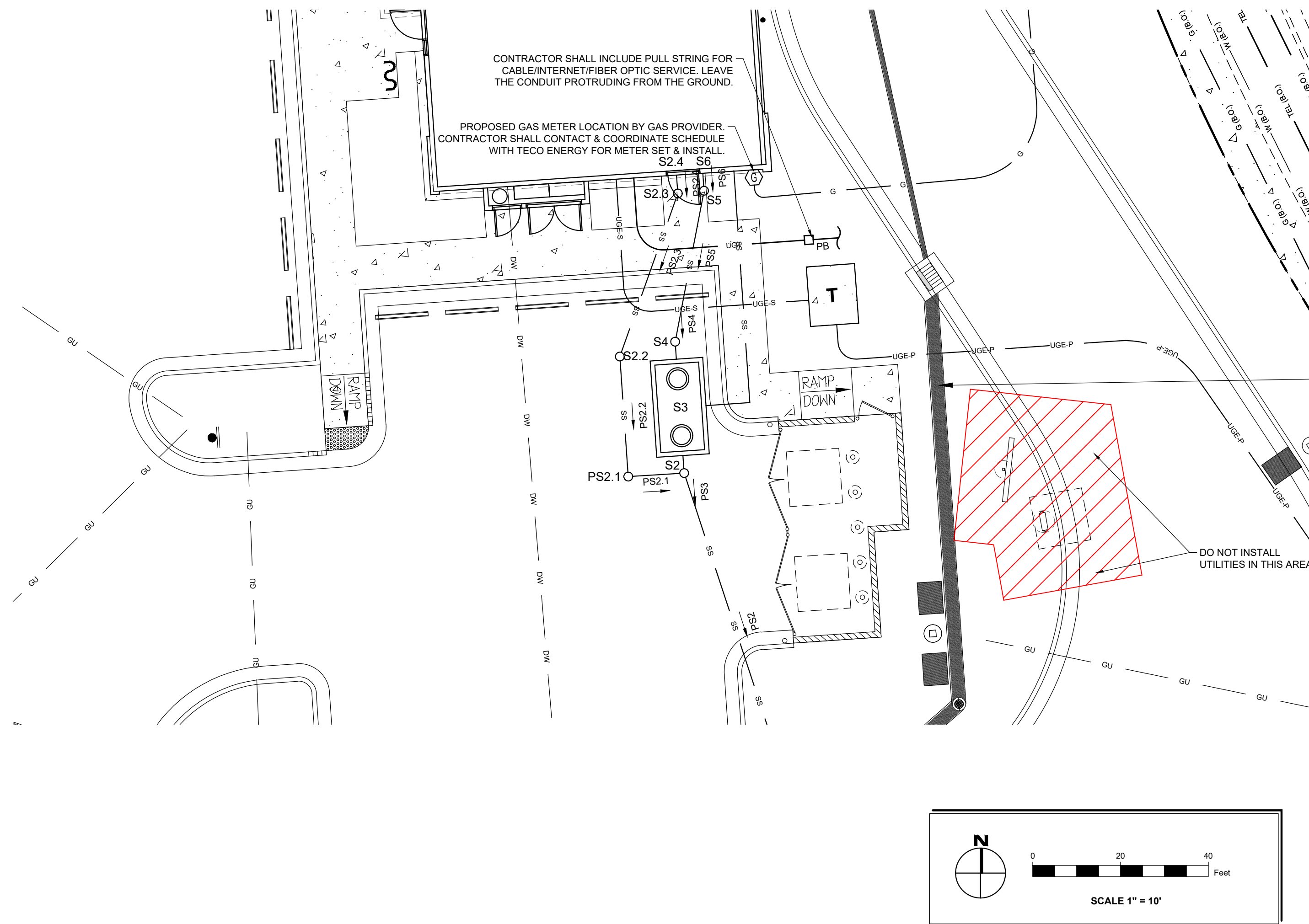
DRAWN BY: INGENIUM

PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



UTILITY PLAN

C04.0



1 SANITARY DETAIL

GREASE TRAP CALCULATIONS:

$D \times GL \times (HR/12) = \text{SIZE IN GALLONS}$

D = SEATS IN RESTAURANT (INDOOR AND OUTDOOR)
 GL = GALLONS OF WASTEWATER PER MEAL (PAPERWARE, 10 GAL)
 HR = HOURS OF OPERATION

D = 84
 GL = 10
 HR = 10

$84 \times 10 \times 10/12 = 700$

THEREFORE, THE 1,000 GAL. GREASE INTERCEPTOR SPECIFIED ON THE NEXT PAGE IS SUFFICIENT, BASED ON FLORIDA PLUMBING CODE 2020.

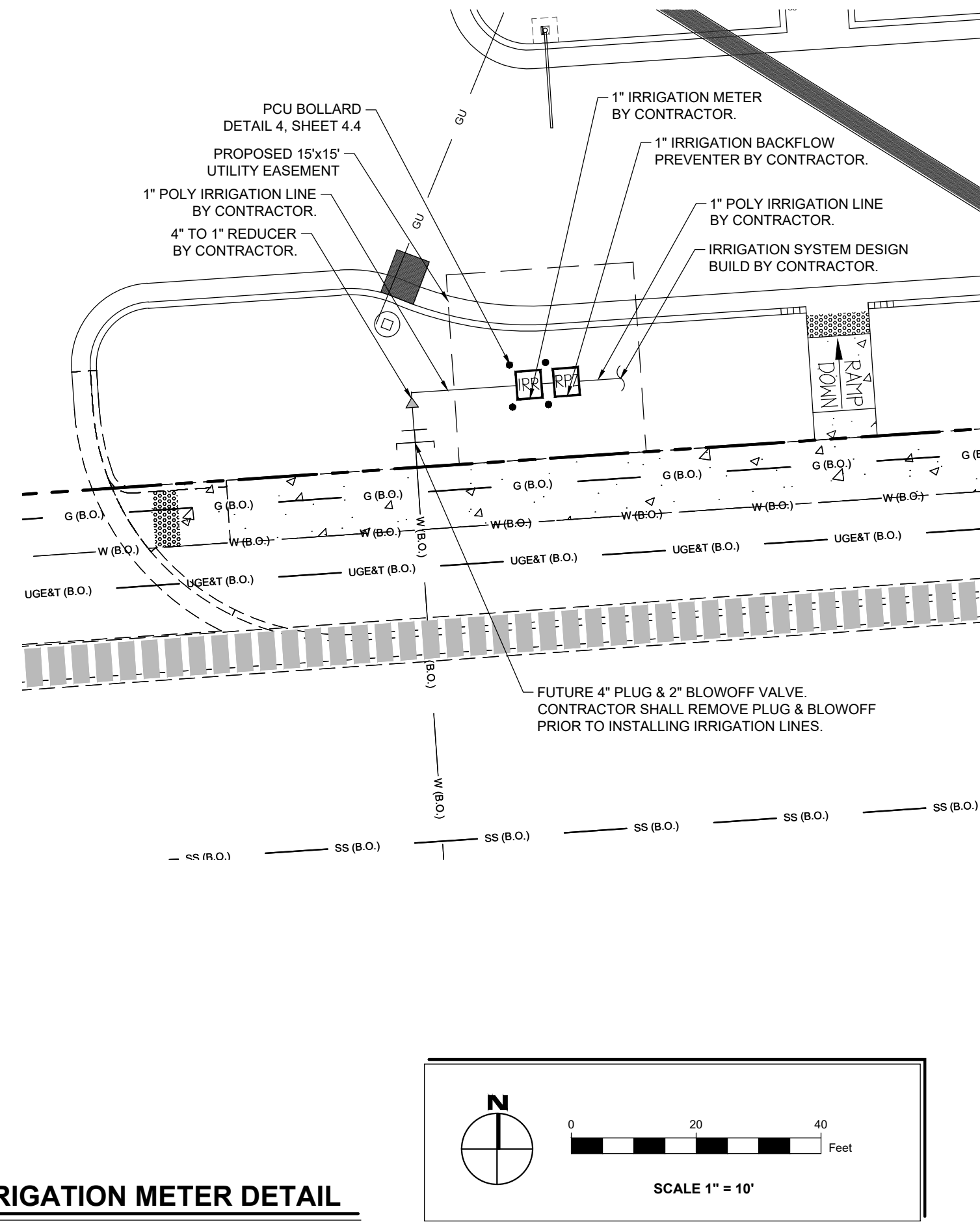
IRRIGATION FLOW DESIGN ANALYSIS:

MAXIMUM STATION FLOW = 26.53 GPM
 FLOW AVAILABLE AT POC = 37.50 GPM
 RESIDUAL FLOW AVAILABLE = 10.97 GPM

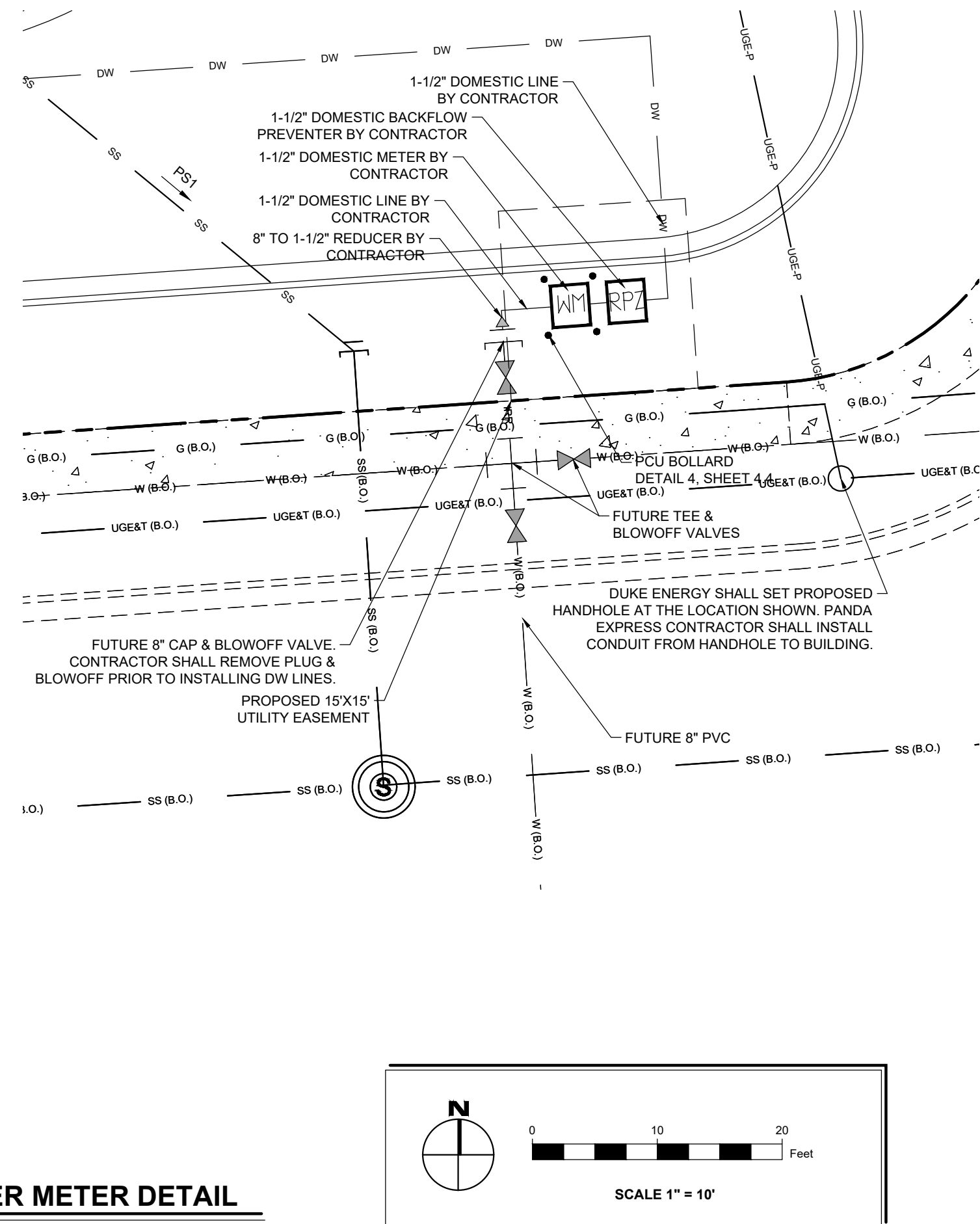
MAX. GAL/DAY = 2,132 GAL.
 MAX. GAL/WEEK = 7,556 GAL.

*FLOWS ARE BASED ON HYDRANT TEST COMPLETED BY MASTER DEVELOPER OF CYPRESS RANCH DEVELOPMENT. CONTRACTOR SHALL FIELD VERIFY INFORMATION ABOVE.

PLEASE REFER TO THE IRRIGATION PLAN (SHEET I01.0 FOR ADDITIONAL INFORMATION.



2 IRRIGATION METER DETAIL



3 WATER METER DETAIL



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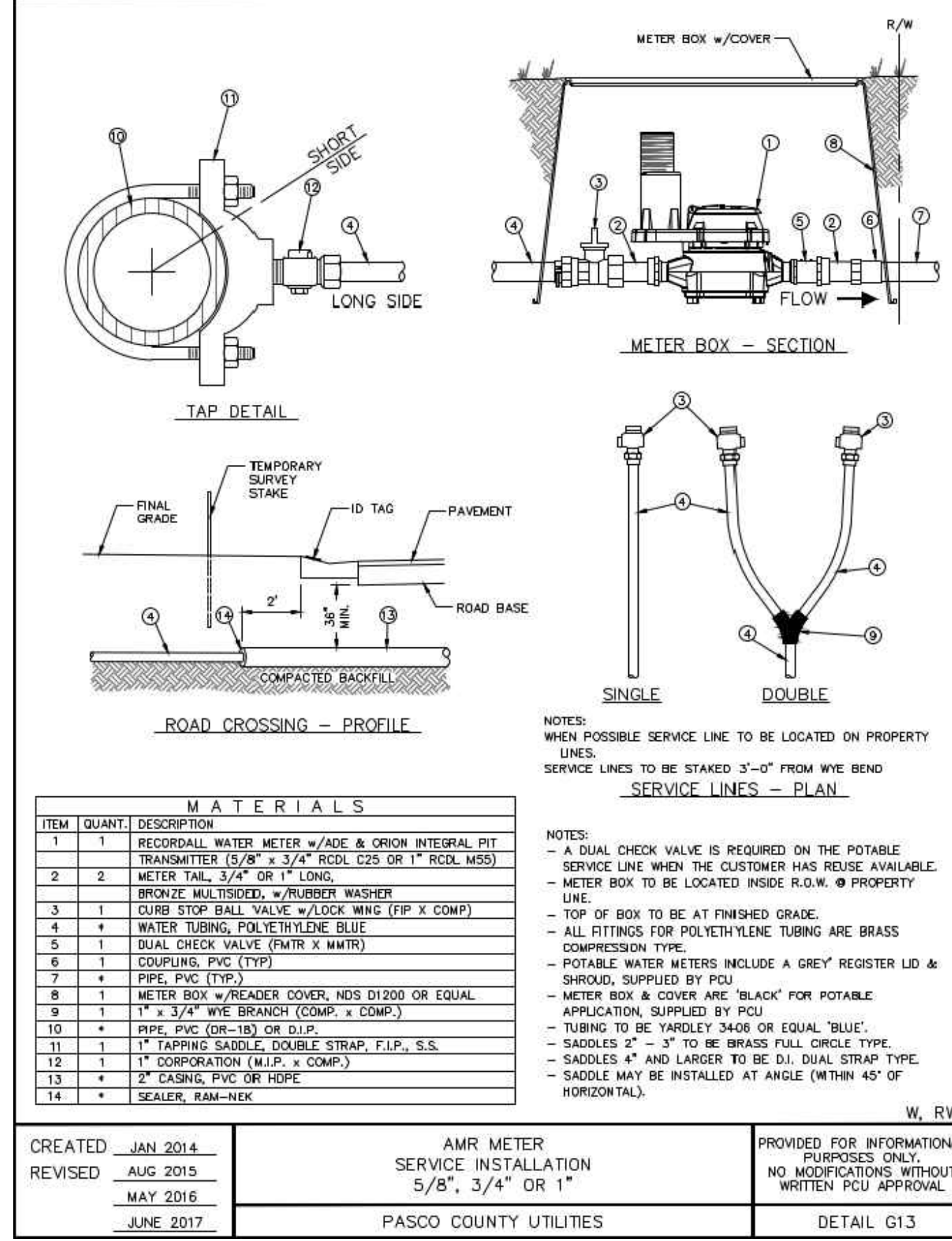
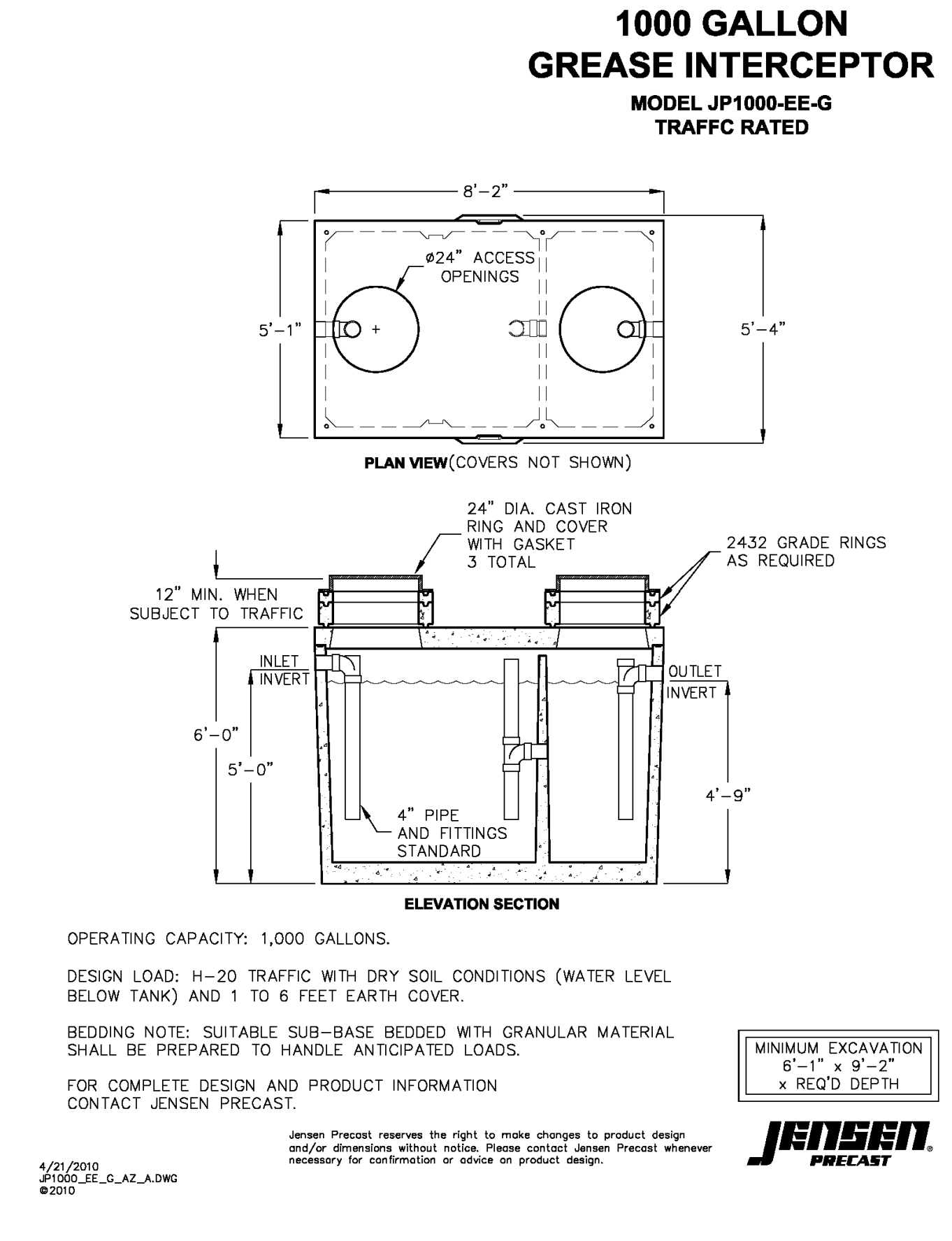
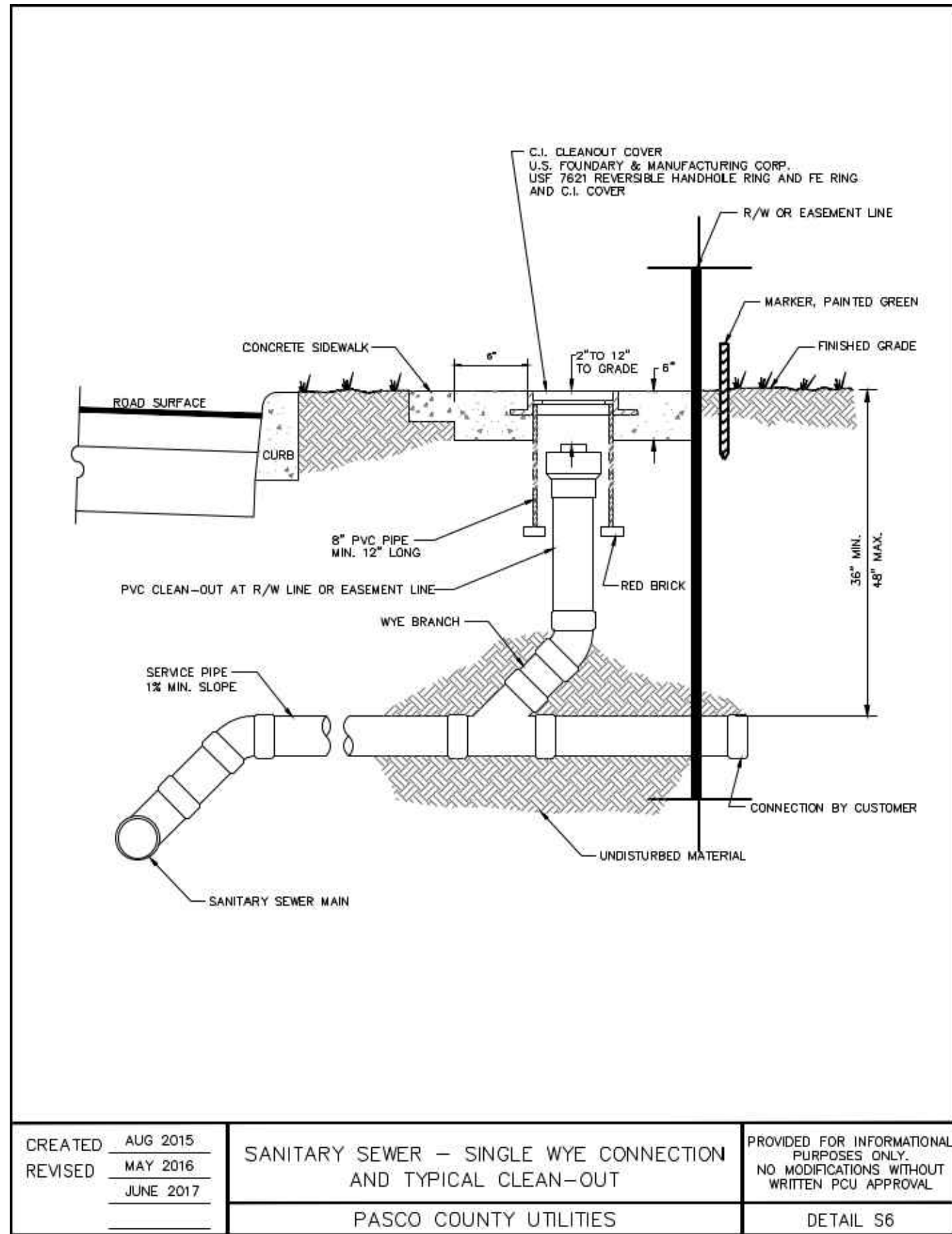
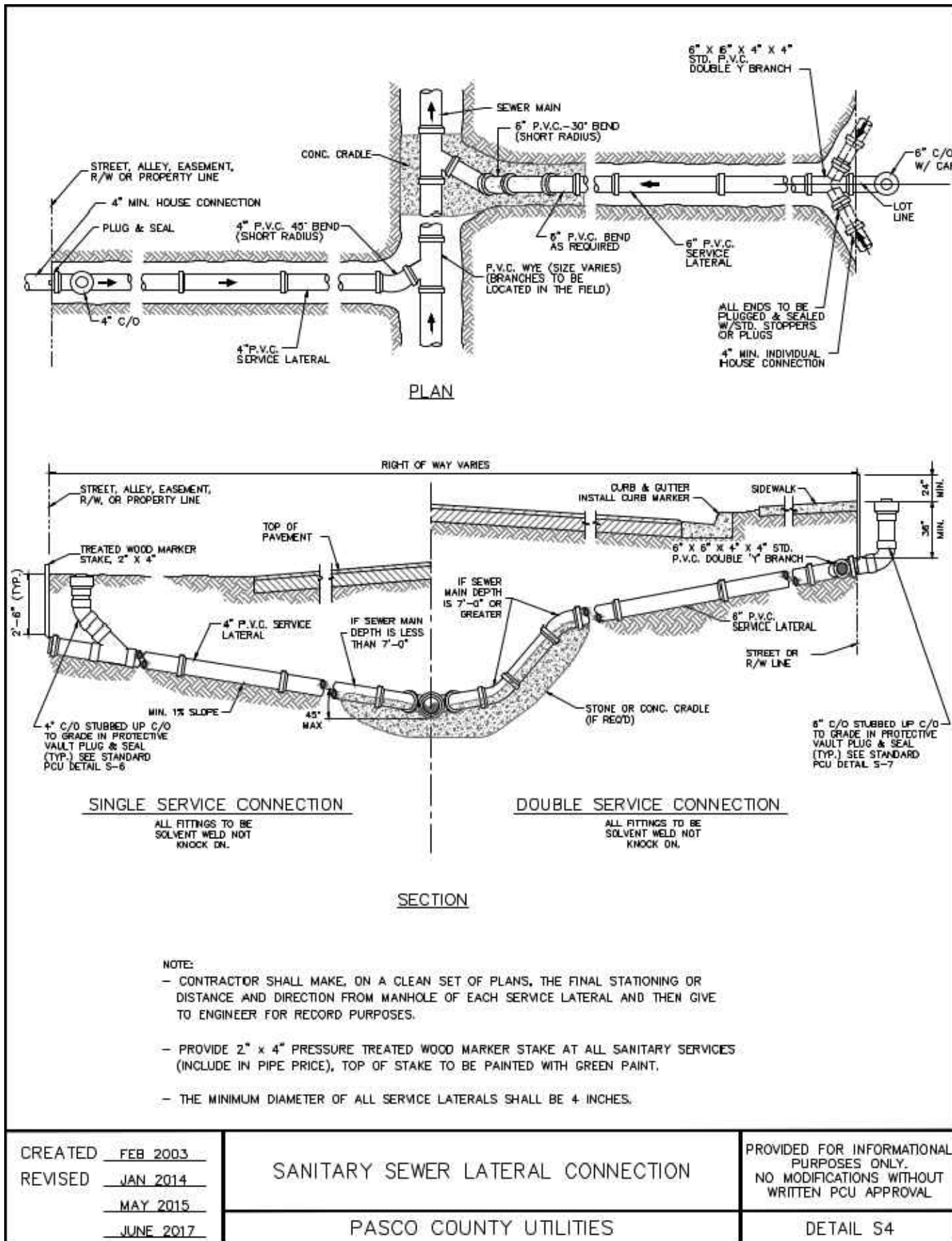
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PANDA PROJECT #: D8135
 PANDA STORE #:
 ARCH PROJECT #:



UTILITY DETAIL
 PLAN
 C04.1



1

SANITARY SEWER CONNECTION NTS

PASCO COUNTY UTILITY DETAIL S4

2

SANITARY CLEANOUT NTS

PASCO COUNTY UTILITY DETAIL S6

3

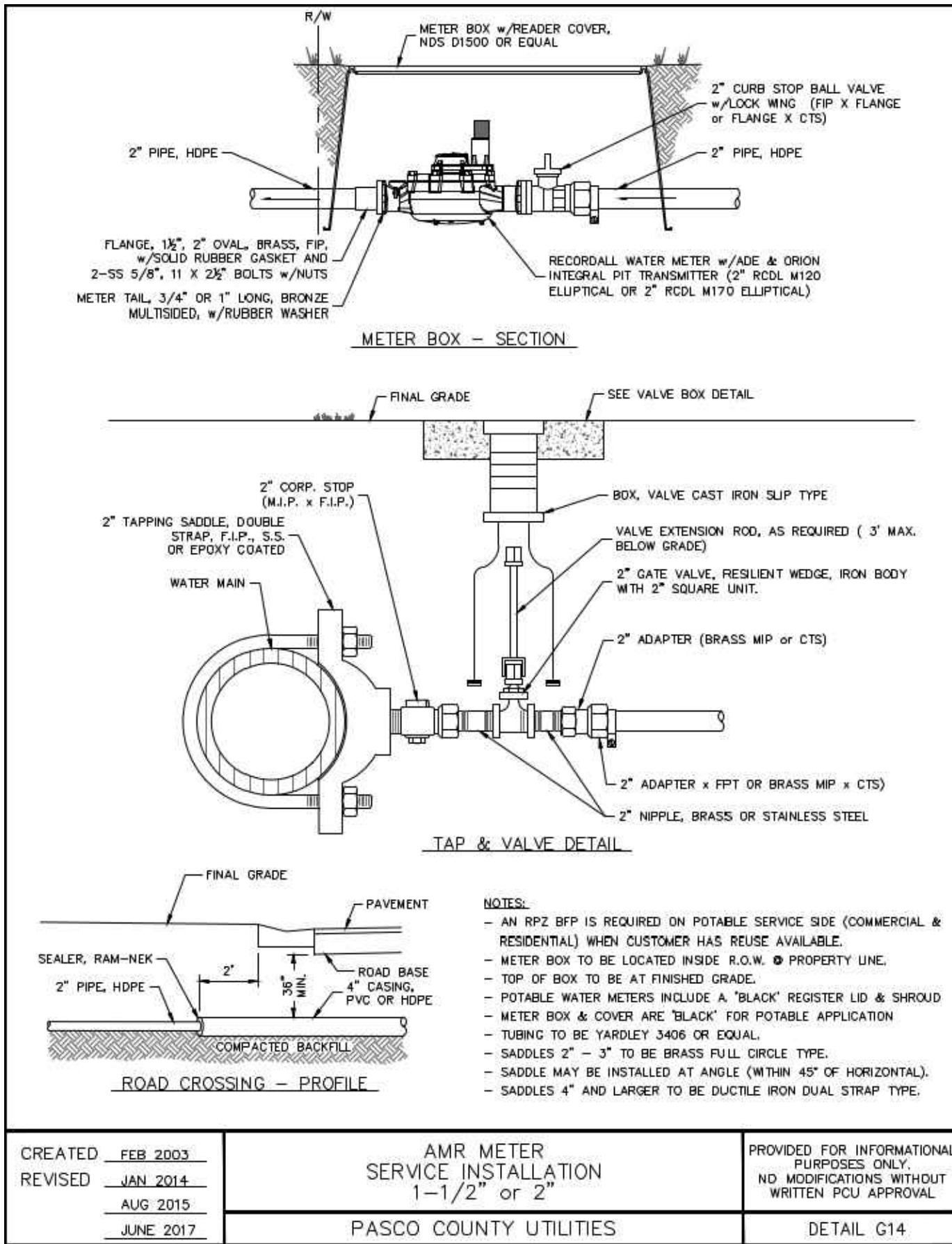
1,000 GAL. GREASE TRAP NTS

PASCO COUNTY UTILITY DETAIL S5

4

1" IRRIGATION METER NTS

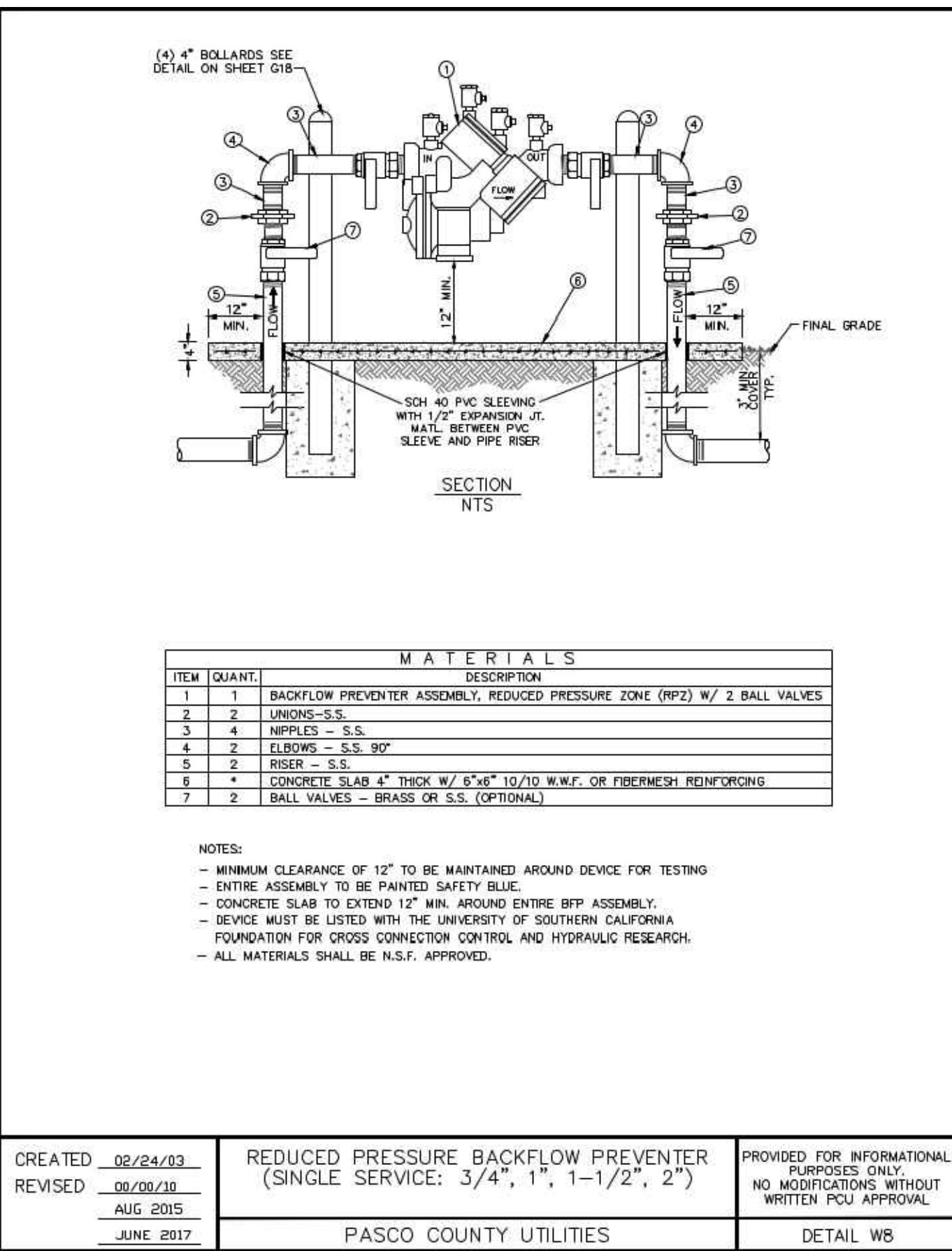
PASCO COUNTY UTILITY DETAIL G13



6

1"-1/2" DOMESTIC METER NTS

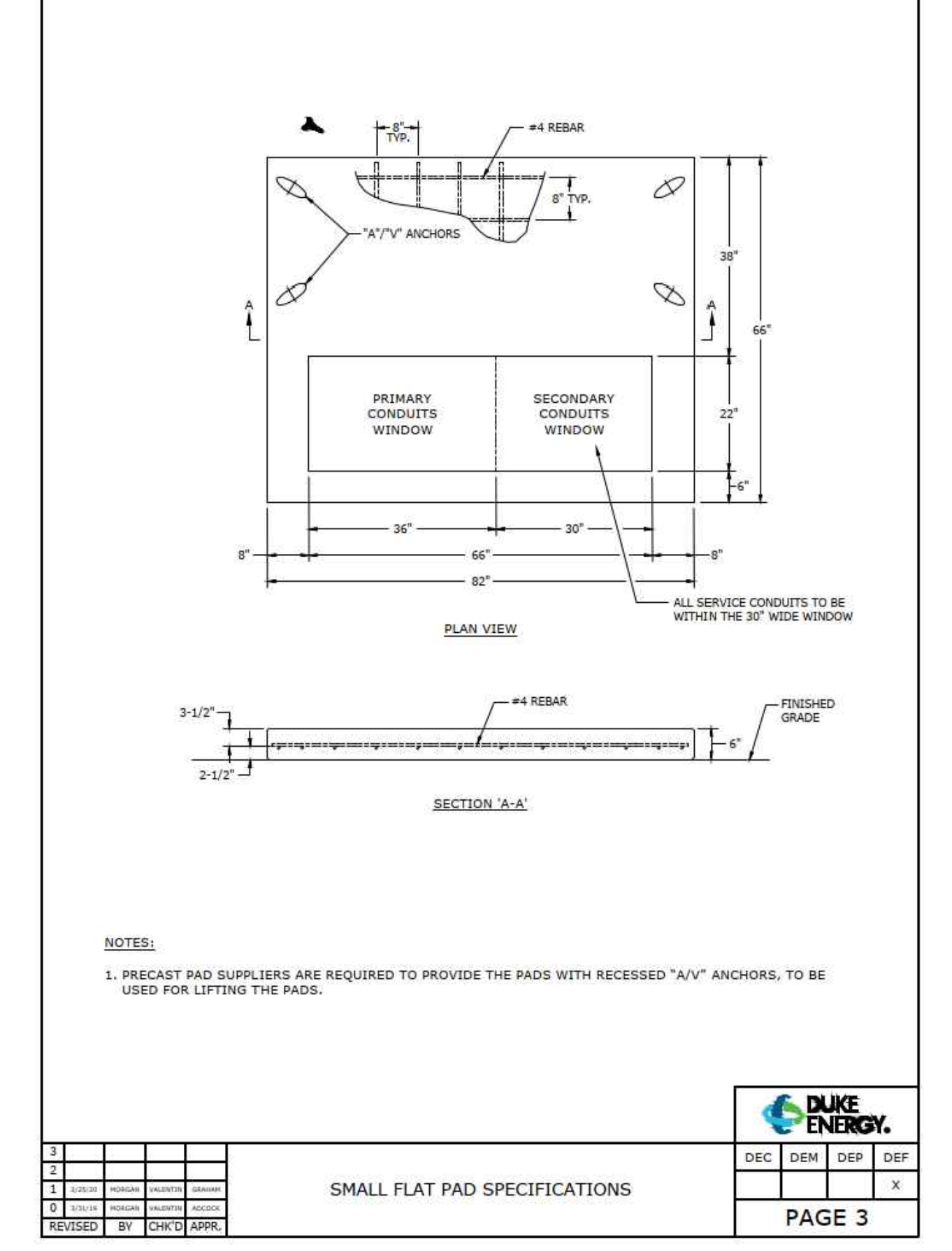
PASCO COUNTY UTILITY DETAIL G14



7

1"-1/2" BACKFLOW PREVENTER NTS

PASCO COUNTY UTILITY DETAIL W8



8

TRANSFORMER PAD NTS

PASCO COUNTY UTILITY DETAIL W8



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UTILITY
DETAILS I

C04.2



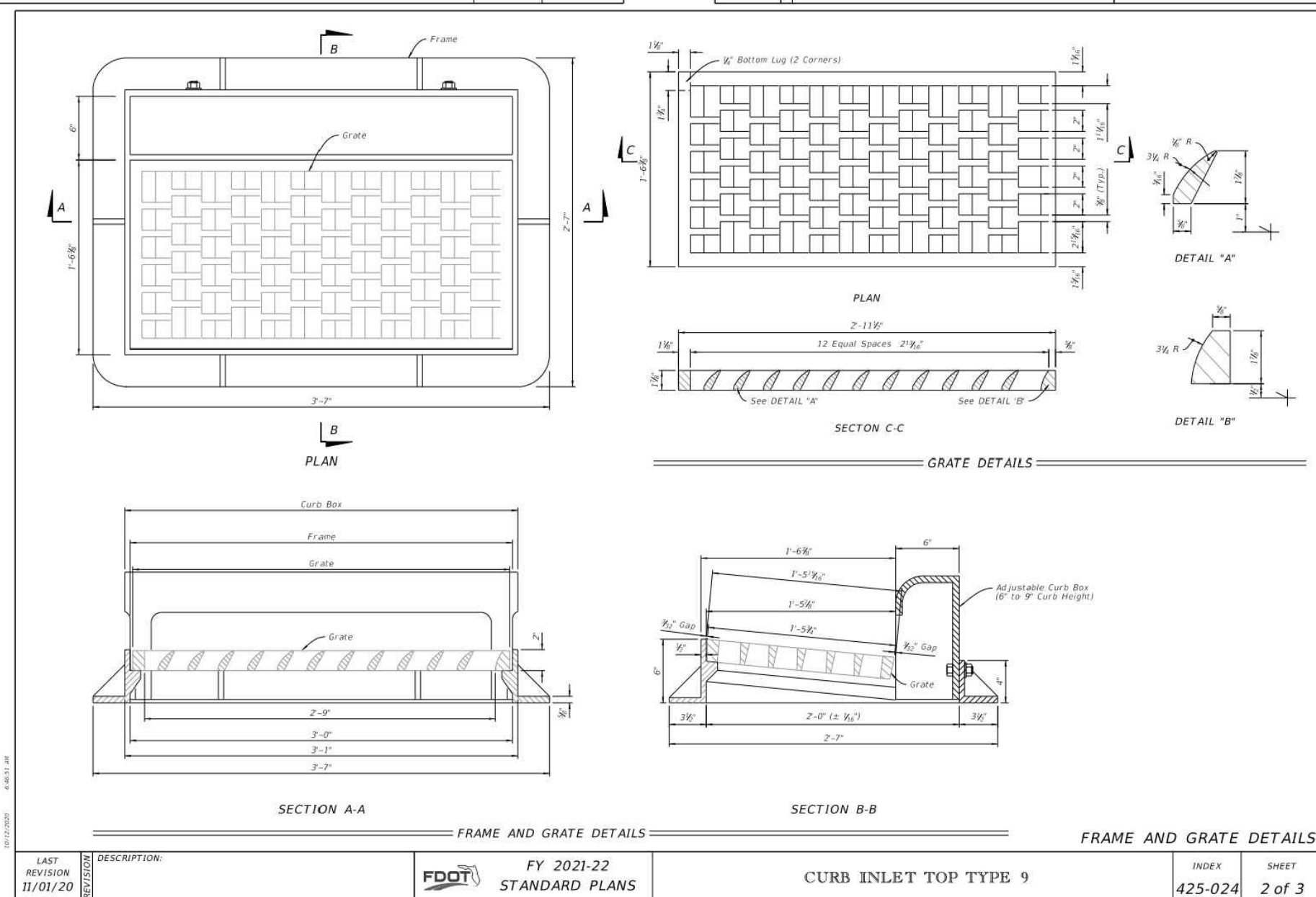
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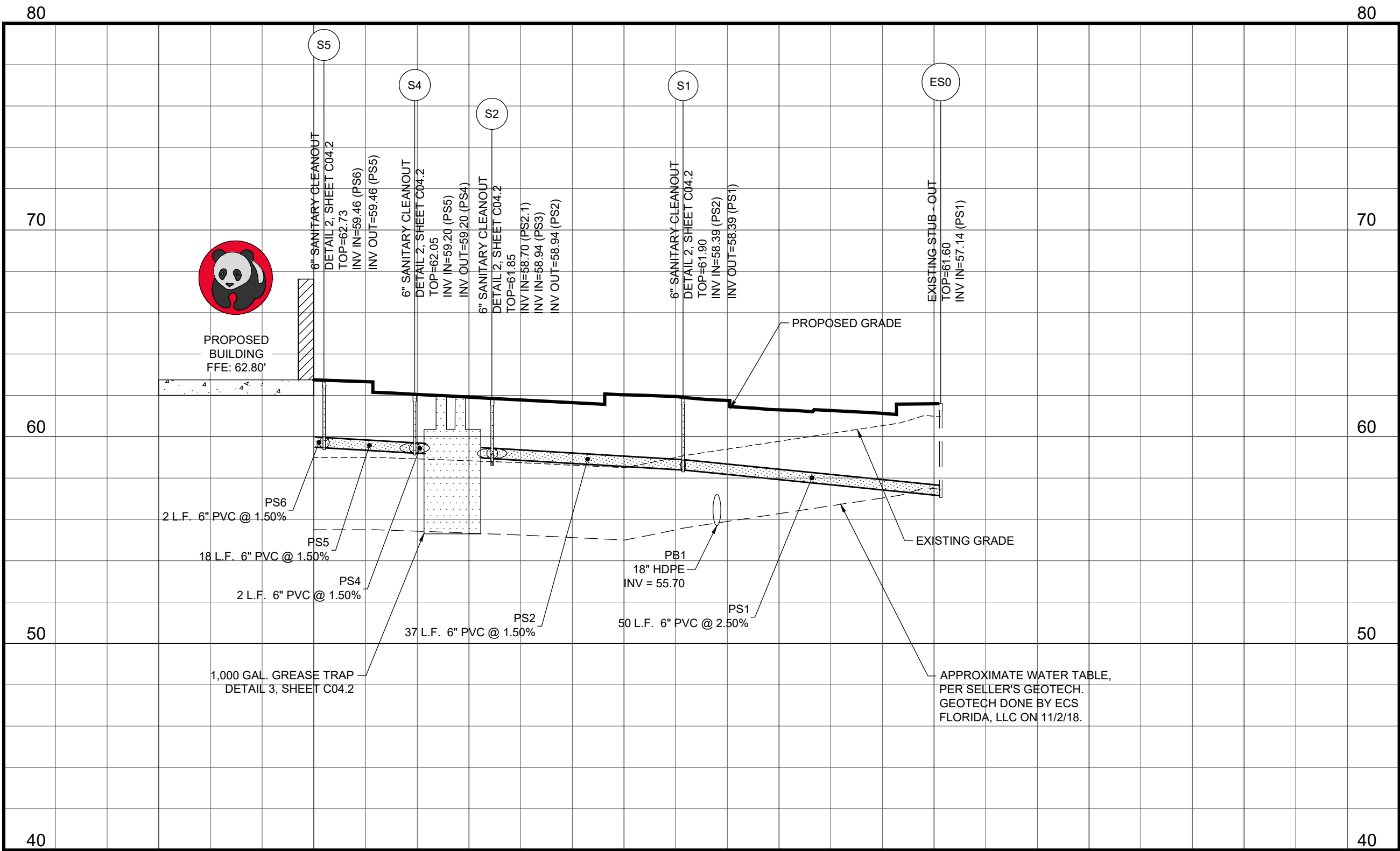


TRUE WARM & WELCOME 2300



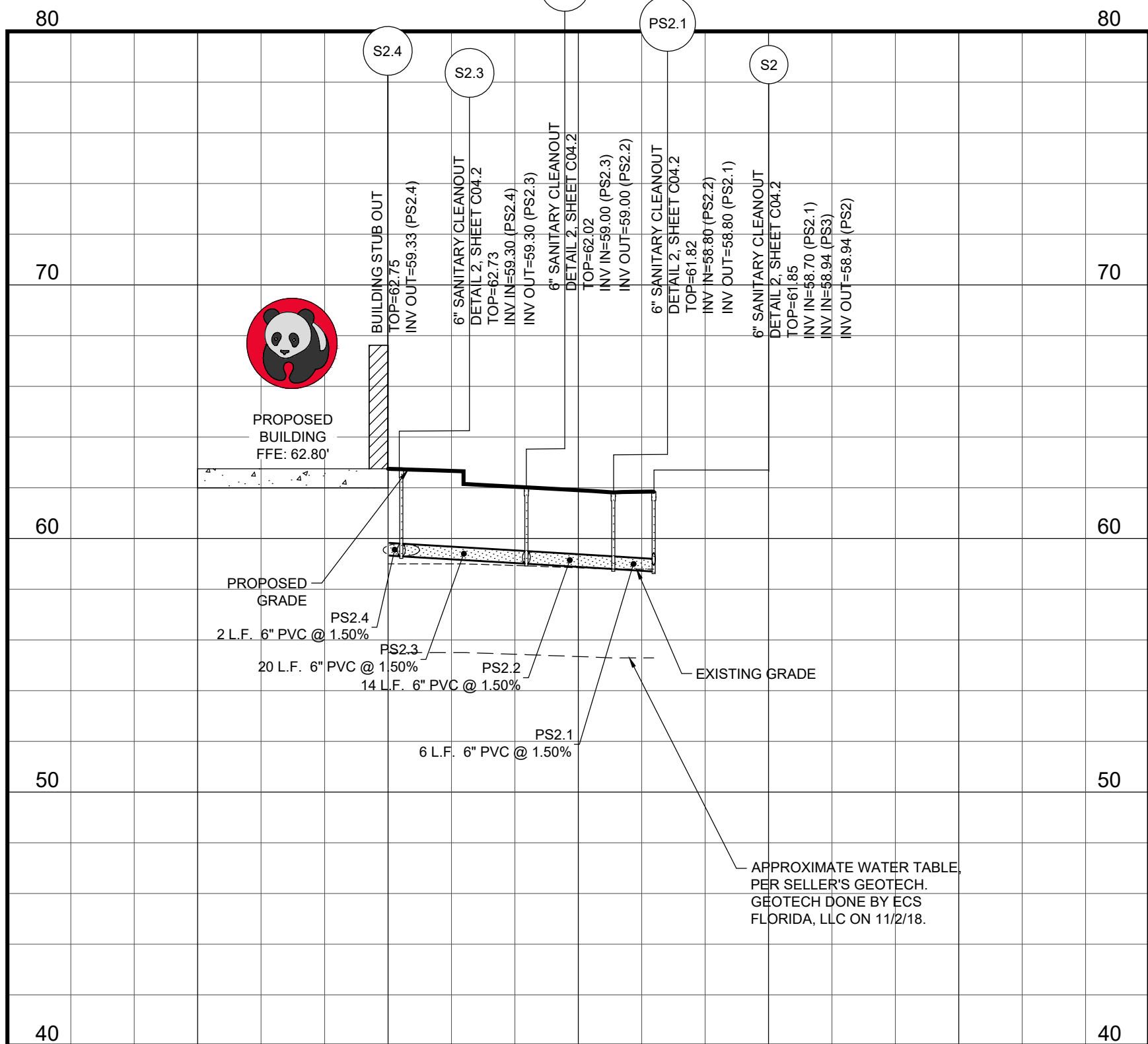
C04.3

SANITARY S6 - ES0



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

SANITARY S2.3 - S2



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

PROFILE NOTES

1. REFER TO DETAIL 2 ON SHEET C04.4 FOR BACKFILL AND COMPACTION REQUIREMENTS.
2. STORM DRAIN AND SANITARY SEWER LENGTHS ARE MEASURED FROM CENTER LINE OF STRUCTURE TO CENTERLINE OF STRUCTURE OR FACE OF HEADWALL.
3. ALL PIPE LENGTHS SHOWN ARE ROUNDED TO THE NEAREST FOOT.
4. ALL STORM DRAIN PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 2 ON SHEET C04.4 UNLESS SPECIFICALLY NOTED OTHERWISE.
5. ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 2 ON SHEET C04.4 UNLESS SPECIFICALLY NOTED OTHERWISE.
6. UNFORESEEN SUBSURFACE CONDITIONS SHALL BE BROUGHT TO THE OWNER'S AND ENGINEER'S ATTENTION IMMEDIATELY IMPLEMENTATION OF CORRECTIVE BEDDING MEASURES WITHOUT THE OWNER'S APPROVAL SHALL BE AT THE CONTRACTOR'S OWN RISK AND AT NO ADDITIONAL COMPENSATION.
7. EXISTING GRADES SHOWN ARE APPROXIMATE AND DO NOT REFLECT TOP SOIL REMOVAL, CLEARING, AND GRUBBING OPERATIONS. THE CONTRACTOR SHALL ASCERTAIN FOR HIMSELF THE EXTENT OF DISTURBANCE FOR THESE ACTIVITIES.
8. THE CONTRACTOR SHALL REFERENCE THE GEOTECHNICAL REPORT PREPARED FOR THE OWNER FOR SUBSURFACE CONDITIONS. THE GEOTECHNICAL REPORT IS NOT A PART OF THE CONTRACT DOCUMENTS.
9. EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
10. SEE SHEET C01.1 FOR GENERAL NOTES.



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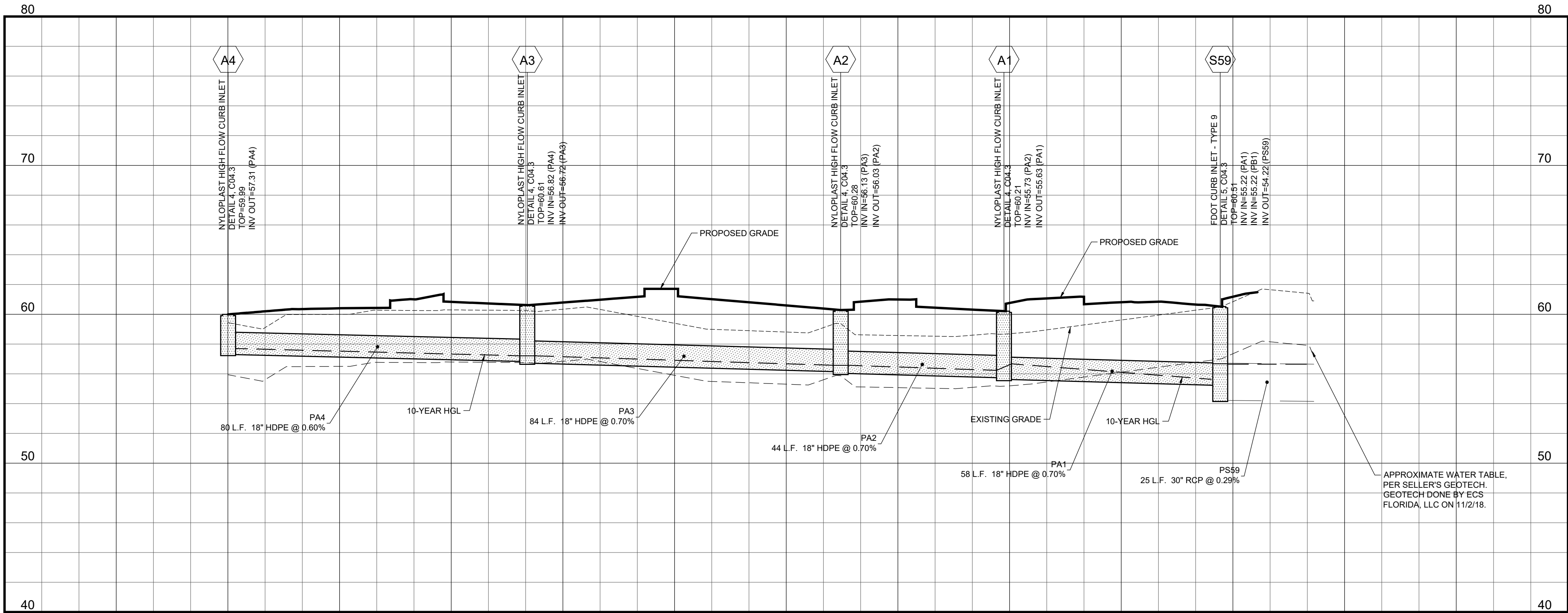
PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



PROFILES I

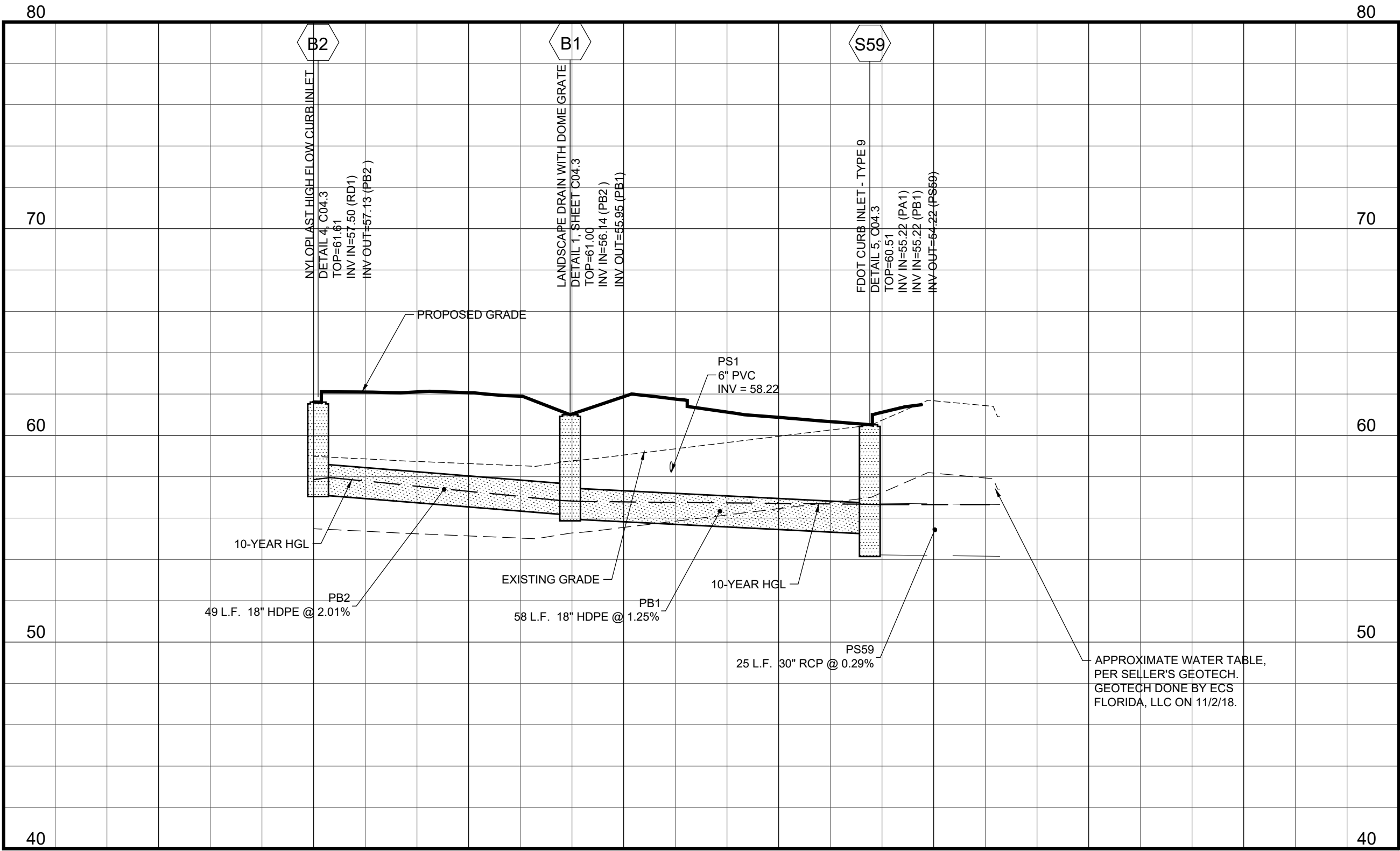
C04.5

STORM A4 - S59



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

STORM B2 - S59



HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

PROFILE NOTES

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5. ALL SANITARY SEWER PIPING SHALL BE TRENCHED, BEDDED AND BACK FILLED ACCORDING WITH DETAIL 2 ON SHEET C04.4 UNLESS SPECIFICALLY NOTED OTHERWISE.
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9. EXCAVATIONS FOR STRUCTURES SHALL BE TAKEN AS A TRENCHING EXCAVATION WITHOUT FURTHER COMPENSATION.
10. SEE SHEET C01.1 FOR GENERAL NOTES.

10-YEAR INLET CALCULATIONS

Line No	Inlet ID	Q =	Q	Q	Q	Junc	Curb Inlet		Grate Inlet		Gutter							Inlet			Byp Line No	
		CIA	carry	capt	Byp		Ht	L	Area	L	W	So	W	Sw	Sx	n	Depth	Spread	Depth	Spread		Depr
		(cfs)	(cfs)	(cfs)	(cfs)	Type	(in)	(ft)	(sqft)	(ft)	(ft)	(in)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(in)		
11	A4	1.09	0.00	1.09	3.00	Comb	5.7	2.90	1.07	2.90	1.40	Sag	1.5c	0.083	0.024	0.000	0.22	5.57	0.22	5.57	0.0	Off
10	A3	0.61	0.00	0.61	3.00	Comb	5.7	2.90	1.07	2.90	1.40	Sag	1.5c	0.083	0.027	0.000	0.17	3.22	0.17	3.22	0.0	Off
9	A2	0.38	0.00	0.38	3.00	Comb	5.7	2.90	1.07	2.90	1.40	Sag	1.5c	0.083	0.025	0.000	0.14	2.15	0.14	2.15	0.0	Off
8	A1	0.49	0.00	0.49	3.00	Comb	5.7	2.90	1.07	2.90	1.40	Sag	1.5c	0.083	0.040	0.000	0.16	2.28	0.16	2.28	0.0	Off
7	Null Structure	0.18	0.00	0.00	3.18	None	0.0	0.00	0.00	0.00	0.00	Sag	0.0c	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
6	Null Structure	0.18	0.00	0.00	3.18	None	0.0	0.00	0.00	0.00	0.00	Sag	0.0c	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
5	Structure - (67)	0.01*	0.00	0.00	3.01	None	0.0	0.00	0.00	0.00	0.00	Sag	0.0c	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
4	Structure - (68)	0.01*	0.00	0.00	3.01	None	0.0	0.00	0.00	0.00	0.00	Sag	0.0c	0.000	0.000	0.000	0.00	0.00	0.00	0.00	0.0	Off
3	B2	0.79	0.00	0.79	3.00	Comb	5.7	2.90	1.07	2.90	1.40	Sag	1.5c	0.083	0.016	0.000	0.19	5.65	0.19	5.65	0.0	Off
2	S1	0.11	0.00	0.11	3.00	DrGr	0.0	0.00	1.00	1.00	1.00	Sag	1.5c	0.062	0.062	0.000	0.04	2.87	0.04	2.87	0.0	Off
1	S59	1.26	0.00	1.26	3.00	Comb	4.0	5.92	2.10	5.92	1.50	Sag	1.5c	0.083	0.024	0.000	0.19	4.34	0.19	4.34	0.0	Off

Project File: 200071.sdm

Number of lines: 11

Run Date: 12/7/2020

NOTES: Inlet N-Values = 0.016; Intensity = 53.44 / (inlet time + 6.50) ^ 0.70; Return period = 10 Yrs; * Indicates Known Q added All curb inlets are throat.

Storm Sewers v2020.05

10-YEAR PIPE CALCULATIONS

Station	Len	Drng Area	Rnoff	Area x C		Tc	Rain	Total	Cap	Vel	Pipe	Invert Elev		HGL Elev		Grnd / Rim Elev		Line ID					
Line	To		Incr	Total	Incr	Total	Inlet	Total	Full		Size	Slope	Dn	Up	Dn	Up	Dn	Up					
	Line		(ac)	(ac)			(min)	(min)	(in/hr)	(cfs)	(in)	(%)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)					
11	10		80.426	0.19	0.15	0.92	0.17	0.17	15.0	15.0	6.3	1.09	8.88	3.01	18	0.61	56.82	57.31	57.21	57.70	60.60	59.95	PA4
10	9		84.208	0.11	0.30	0.89	0.10	0.27	15.0	15.4	6.2	1.68	9.52	3.66	18	0.70	56.13	56.72	56.57	57.21	60.25	60.60	PA3
9	8		43.869	0.07	0.37	0.86	0.06	0.33	15.0	15.6	6.1	2.03	9.41	3.77	18	0.68	55.73	56.03	56.23	56.57	60.20	60.25	PA2
8	1		58.085	0.10	0.47	0.78	0.08	0.41	15.0	16.0	6.1	2.49	9.56	2.61	18	0.71	55.22	55.63	56.67	56.23	60.50	60.20	PA1
7	4		12.580	0.03	0.03	0.95	0.03	0.03	15.0	15.0	6.3	0.18	0.86	1.86	6	1.99	58.17	58.42	58.47	58.63	62.05	62.80	RD2
6	5		12.580	0.03	0.03	0.95	0.03	0.03	15.0	15.0	6.3	0.18	0.86	2.23	6	1.99	58.61	58.86	58.83	59.07	62.25	62.80	RD4
5	4		22.056	0.01	0.04	0.01	0.00	0.03	15.0	15.1	6.2	0.19	0.86	1.92	6	1.99	58.17	58.61	58.47	58.83	62.05	62.25	RD3
4	3		33.234	0.01	0.06	0.01	0.00	0.06	15.0	15.2	6.2	0.37	0.86	2.45	6	1.99	57.50	58.16	57.96	58.47	61.60	62.05	RD1
3	2		49.012	0.15	0.23	0.84	0.13	0.18	15.0	15.5	6.2	1.15	16.09	4.15	18	2.00	56.58	57.56	56.85	57.96	61.00	61.60	PB2
2	1		58.004	0.04	0.27	0.42	0.02	0.20	15.0	15.7	6.1	1.24	16.09	1.91	18	2.00	55.22	56.38	56.67	56.80	60.50	61.00	PB1
1	End		25.144	0.24	0.98	0.84	0.20	0.81	15.0	16.4	6.0	4.88	23.44	1.00	30	0.28	54.15	54.22	56.65	56.65	58.42	60.50	PS56

Project File: 200071.sdm

Number of lines: 11

Run Date: 12/7/2020

NOTES: Intensity = 53.44 / (inlet time + 6.50) ^ 0.70; Return period = Yrs; 10 ; c = cir e = ellip b = box



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DRAWN BY: INGENIUM

PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



PROFILES II

C04.6



March 23, 2021

Mr. Eric B. Patrick
Pasco County Utilities Engineering
19420 Central Boulevard
Land O'Lakes, FL 34637

Re: Panda Express, Skybrooke Boulevard & SR 54

CP: 2200775

Dear Mr. Patrick:

This is in response to the deficiency comments for the above referenced project. According to Table 18.4.5.2.1 of the Seventh Edition of the Florida Fire Prevention Code, NFPA 1, the needed fire flow for an unprotected wood frame (VB-FBC or V(000)- NFPA) building of 2,381 ft² is 1,500 gallons per minute for 2 hours (please see the attached table).

At this time the fire hydrants for the development have not been installed. However, Bohler Engineering has prepared the report, "WaterCAD Report Prepared for Cypress Ranch", dated September 5, 2019 and Revised October 24, 2019. This report is a predictive model of the available water flow in the proposed underground pipe network based on existing fire hydrant test reports.

There is a proposed fire hydrant located to the southwest corner of the Panda Express building, to be located in Stonybrook Road. Since this fire hydrant is less than 250-feet from the proposed Panda Express, as allowed by Table 18.4.5.3 (attached), this fire hydrant is allowed a maximum flow capacity of 1,500 gpm.

The fire hydrant to the southeast of the Panda Express store is fire hydrant H-03 in the Bohler Report. The Appendix H of the report indicates that the static pressure will be 79 psi and that there will be 2302 gpm available at 20 psi. Therefore, based on the Bohler Report there will be adequate fire flow available, 1,500 gpm, in the fire hydrant indicated as H-03.

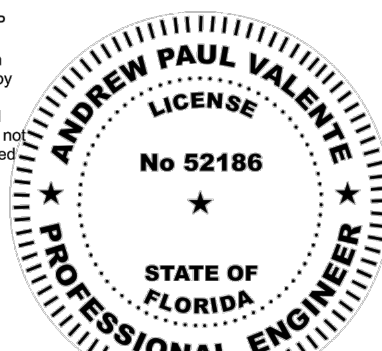
I appreciate your consideration and I look forward to your response. If you have any questions please do not hesitate to contact me at 407-643-2402 or andrew.valente@c-p.com.

Sincerely,


Andrew P. Valente, PE, FSFPS
Manager, Fire Protection

Andrew P Valente

Digitally signed by Andrew P Valente
Reason: This item has been digitally signed and sealed by Andrew Valente on the date adjacent to the seal. Printed copies of this document are considered signed and sealed and the signature must be verified on any electronic copies.
Date: 2021.03.23 13:55:47-04'00'



03/23/2021

Attachments: Attachment 1 – Table 18.4.5.2.1
Attachment 2 – Table 18.5.4.3
Attachment 3 – Bohler Report Appendix H
Separate File, WaterCAD Report prepared for Cypress Ranch

2600 Maitland Center Parkway, Suite 200 • Maitland, FL 32751 • PH: 407-661-9100 • FAX: 407-661-9101 • www.c-p.com



Page 4

Attachment 3 – Appendix H of Bohler Report

Appendix H – Fire/Domestic Fire Flow Report Results

Fire Flow Report				
Label	Elevation (ft)	Hydraulic Grade (ft)	Fire Flow (Available) (gpm)	Pressure (psi)
H-01	58.54	240.82	2,295	79
H-02	58.65	240.82	2,293	79
H-03	58.76	240.82	2,302	79
H-04	59.06	240.81	2,247	79
H-05	59.25	240.72	2,197	79
H-06	61.31	240.82	2,130	78
H-07	59.52	240.82	2,117	78
H-08	61.12	240.81	2,224	79
H-09	60.03	240.71	2,089	78
H-10	58.31	240.7	2,063	78
H-11	57.57	240.76	2,137	78
H-12	59.13	240.76	1,880	78
H-SF-1	63.00	240.66	1,553	77
H-SF-2	63.00	240.65	1,407	77
H-SF-3	63.00	240.65	1,521	77
H-TH-1	61.50	240.82	1,458	79
H-TH-2	61.50	240.77	1,543	79



Page 2

Attachment 1 – Table 18.4.5.2.1

Table 18.4.5.2.1 Minimum Required Fire Flow and Flow Duration for Buildings

Fire Flow Area ft ² (× 0.0929 for m ²)					Fire Flow gpm ¹ (× 3.785 for L/min)	Flow Duration (hours)
I(415), I(332), I(222)*	II(111), III(311)*	IV(2HH), V(111)*	II(000), III(200)*	V(000)*		
0-22,700	0-12,700	0-8200	0-5000	0-3000	1500	2
22,701-50,300	12,701-17,000	8201-10,900	5001-7500	3001-4500	1750	
50,301-35,700	17,001-21,800	10,901-12,900	7501-9500	4501-6200	2000	
35,701-48,300	21,801-24,200	12,901-17,400	9501-12,600	6201-7700	2250	
48,301-50,000	24,201-33,200	17,401-21,300	12,601-15,400	7701-9400	2500	
50,001-70,000	33,201-39,700	21,301-25,500	15,401-18,400	9401-11,300	2750	



Page 3

Attachment 2 – Table 18.5.4.3

Table 18.5.4.3 Maximum Fire Hydrant Fire Flow Capacity

Distance to Building ^a		Maximum Capacity ^b	
(ft)	(m)	(gpm)	(L/min)
≤ 250	≤ 76	1500	5678
> 250 and ≤ 500	> 76 and ≤ 152	1000	3785
> 500 and ≤ 1000	> 152 and ≤ 305	750	2839

^aMeasured in accordance with 18.5.1.4 and 18.5.1.5.

^bMinimum 20 psi (139.9 kPa) residual pressure.



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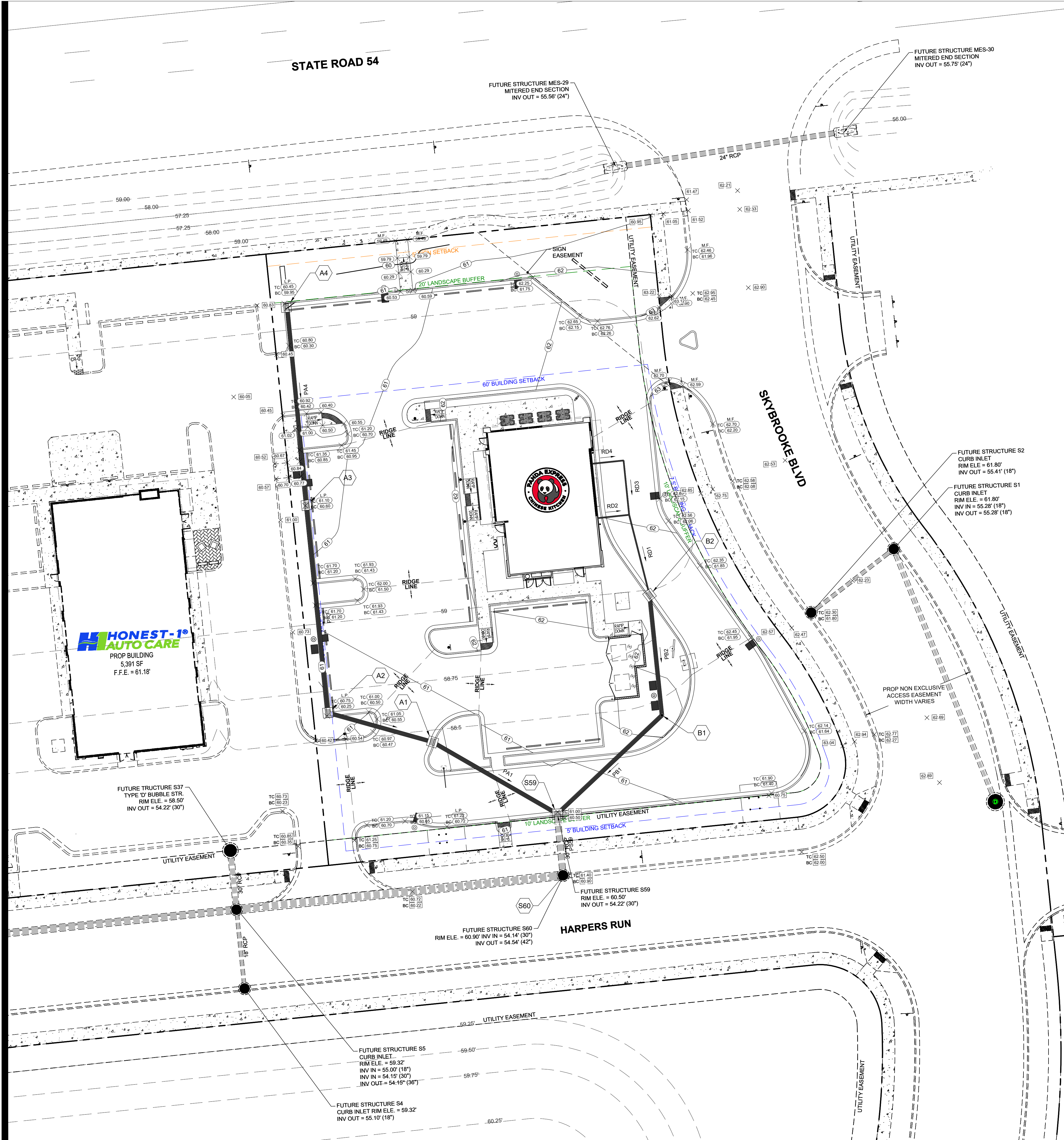
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PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



FIRE FLOW AND
PRESSURE CALCS

C04.7



GRADING & DRAINAGE LEGEND		
GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE		SEE PLANS
SPOT ELEVATION		SEE PLANS
STORM DRAIN		SEE PLANS
HEADWALL (HW) / FLARED END SECTION (FES)		PROPOSED BY OTHERS
DROP INLET (GRATE)		NOT APPLICABLE
DROP INLET (GRATE AND HOOD)		DETAILS 4 & 5, SHEET C04.3
JUNCTION BOX (JB) / OCS		NOT APPLICABLE
CATCH BASIN (SINGLE WING)		NOT APPLICABLE
CATCH BASIN (DOUBLE WING)		NOT APPLICABLE
LANDSCAPE DRAIN		DETAILS 1 & 2, SHEET C04.3
STORM STRUCTURE NUMBER		SEE PLANS

PASCO COUNTY DRAINAGE NOTES

SHOULD ANY NOTICEABLE SOIL SLUMPING OR SINKHOLE FORMATION BECOME EVIDENT, THE APPLICANT/DEVELOPER SHALL IMMEDIATELY NOTIFY THE COUNTY, TAMPA BAY WATER, AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT AND ADOPT ONE (1) OR MORE OF THE FOLLOWING PROCEDURES AS DETERMINED TO BE APPROPRIATE BY THE COUNTY AND SWFWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.

- IF THE SLUMPING OR SINKHOLE FORMATION BECOMES EVIDENT BEFORE OR DURING CONSTRUCTION ACTIVITIES, STOP ALL WORK (EXCEPT FOR MITIGATION ACTIVITIES) IN THE AFFECTED AREA AND REMAIN STOPPED UNTIL THE COUNTY AND SWFWMD APPROVE RESUMING CONSTRUCTION ACTIVITIES.
- TAKE IMMEDIATE MEASURES TO ENSURE NO SURFACE WATER DRAINS INTO THE AFFECTED AREAS.
- VISUALLY INSPECT THE AFFECTED AREA.
- EXCAVATE AND BACKFILL OR GROUT, AS REQUIRED, TO FILL THE AFFECTED AREA AND PREVENT FURTHER SUBSIDENCE.
- USE SOIL REINFORCEMENT MATERIALS IN THE BACKFILLING OPERATION WHEN APPROPRIATE.
- IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA, MAINTAIN A MINIMUM DISTANCE OF TWO (2) FEET FROM THE BOTTOM OF THE RETENTION POND TO THE SURFACE OF THE LIMESTONE OR KARST CONNECTION.
- IF THE AFFECTED AREA IS IN THE VICINITY OF A WATER-RETENTION AREA AND THE ABOVE METHODS DO NOT STABILIZE THE COLLAPSE, RELOCATE THE RETENTION AREA.

STORMWATER MANAGEMENT NOTES

- PRIOR TO THE START OF CLEARING & GRUBBING, OR ANY SOIL DISTURBANCE, CONTRACTOR SHALL CONTACT PASCO COUNTY STORMWATER MANAGEMENT AT (727) 834-3611 FOR SOIL EROSION AND SEDIMENT CONTROL PRE-INSPECTION MEETING.
- THE CONTRACTOR SHALL PROVIDE A DEWATERING PLAN, IF APPLICABLE TO PASCO COUNTY ENGINEERING INSPECTIONS DEPARTMENT AT (727) 834-3670 FOR REVIEW PRIOR TO THE EROSION CONTROL MEASURES PRE-INSPECTION MEETING.

GRADING & DRAINAGE NOTES

- SEE LANDSCAPE PLAN FOR REQUIRED TREES AND GROUND COVER.
- SLOPE OF SURFACE GRADE SHALL BE A MINIMUM OF 1.00%.
- MAXIMUM CUT OF FILL SLOPES IS 2H:1V.
- THE CONTRACTOR SHALL PROVIDE CLEAN, SUITABLE MATERIAL FOR REQUIRED FILL. SHOULD A SUFFICIENT QUANTITY OF SUITABLE MATERIAL NOT BE AVAILABLE FROM THE REQUIRED EXCAVATION ON THE SITE.
- FILL SHALL BE PLACED IN MAXIMUM 12" THIN, HORIZONTAL LOOSE LIFTS WHEN HEAVY, SELF-PROPELLED COMPACTION EQUIPMENT IS USED. FILL SHALL BE PLACED IN 4 TO 6 INCH THIN, HORIZONTAL LOOSE LIFTS WHEN HAND-GUIDED EQUIPMENT (i.e. JUMPING JACK OR PLATE COMPACTOR) IS USED.
- FILL SHALL BE COMPACTED TO AT LEAST 98 PERCENT OF THE MODIFIED PROCTOR TEST (ASTM D 1557) WITHIN 1 FOOT OF FOOTING BOTTOM AND FINISHED PAVEMENT SUBGRADE. FILL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF THE MODIFIED PROCTOR TEST ABOVE FOUNDATIONS, BELOW FLOOR SLABS, AND MORE THAN 1 FOOT BELOW THE FOOTING BOTTOM AND FINISHED PAVEMENT SUBGRADE.
- COMPACTION MUST BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SOILS ENGINEER PRIOR TO THE INSTALLATION OF PAVEMENTS, CURBS, SIDEWALKS OR FOOTINGS OF ANY TYPE.
- DETENTION POND, DETENTION OUTLET STRUCTURES AND TEMPORARY SEDIMENT POND FEATURES ARE TO BE FULLY CONSTRUCTED AND OPERATIONAL PRIOR TO ANY OTHER CONSTRUCTION OR GRADING ON THE SITE AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- JURISDICTIONAL LAND DISTURBANCE PERMIT MUST BE DISPLAYED ON SITE AT ALL TIMES DURING CONSTRUCTION AND IN PLAIN VIEW FROM A PUBLIC ROAD OR STREET.
- SEE SHEET C01.1 FOR GENERAL NOTES.

BUILDING AREA NOTES

- MAINTAIN ACCESS FOR EMERGENCY VEHICLES AROUND AND TO ALL BUILDINGS UNDER CONSTRUCTION; i.e. IN TIMES OF RAIN OR MUD, ROADS SHALL BE PASSABLE TO EMERGENCY VEHICLES BY BEING PAVED OR HAVING A CRUSHED STONE BASE ETC., WITH A MINIMUM WIDTH OF 20 FEET. THE ACCESS TO BUILDINGS HAVING SPRINKLER OR STANDPIPE SYSTEMS SHALL BE TO WITHIN 40 FEET OF THE FIRE DEPARTMENT CONNECTION (NFPA 1141 3-1).
- CONTRACTOR TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING IN ALL AREAS AROUND BUILDINGS. INSTALL FRENCH DRAIN IN LANDSCAPED AREAS ADJACENT TO BUILDING AND CONNECT TO DRAINAGE SYSTEM.
- SEE SHEET C01.1 FOR GENERAL NOTES.

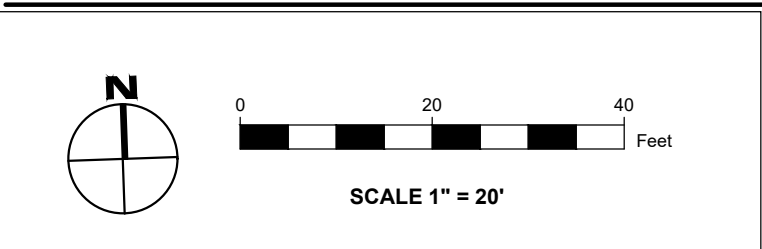
HYDROLOGY STATEMENT

IN THE EXISTING CONDITION, THE SUBJECT PARCEL IS 100% PERVIOUS GRASSLAND. THE OVERALL SELLER WILL BE PROVIDING A STORMWATER STUB OUT AT STRUCTURE S59 AND COMPLETING MASS GRADING ACROSS THE ENTIRE DEVELOPMENT. THE HYDROLOGIC SOIL GROUP AT THIS SITE IS A2. PER THE USGS WEB SOIL SURVEY. IN THE PROPOSED CONDITION, THE STORM WATER FROM THE SITE WILL DRAIN TO MULTIPLE FOOT TYPE 3 CURB INLETS ON THE SITE. THE STORMWATER WILL BE CONVEYED THROUGH A SERIES OF HDPE PIPES, EVENTUALLY OUTFALLING TO EXISTING STRUCTURE S59, WHICH WILL BE PROVIDED BY BOHLER ENGINEERING. EXISTING PIPE P559 HAS BEEN MODELED AS RUNNING FULL AND ALL PROPOSED INLETS ON THE SITE HAVE BEEN MODELED IN THE HALF CLOGGED CONDITION.

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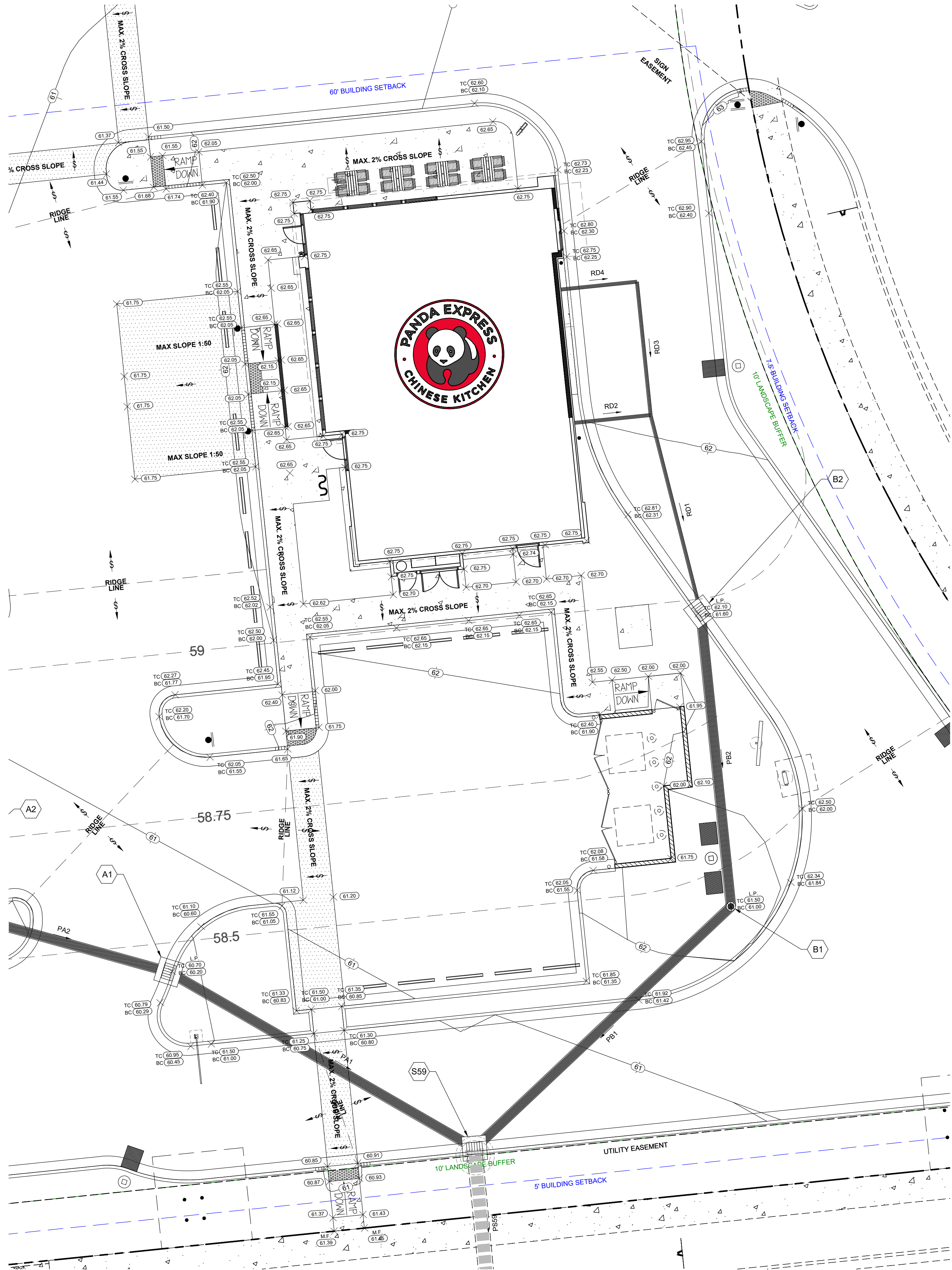
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PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



GRADING &
DRAINAGE
PLAN
C05.0

TRUE WARM & WELCOME 2300



GRADING & DRAINAGE LEGEND		
GRADING/DRAINAGE	LINETYPE/SYMBOL	REFERENCE
GRADE		SEE PLANS
SPOT ELEVATION		SEE PLANS
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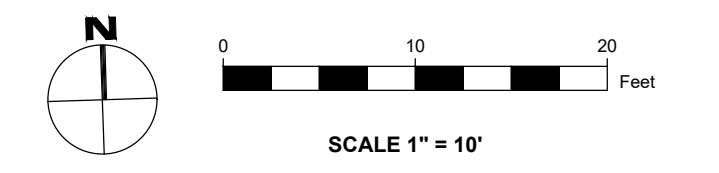
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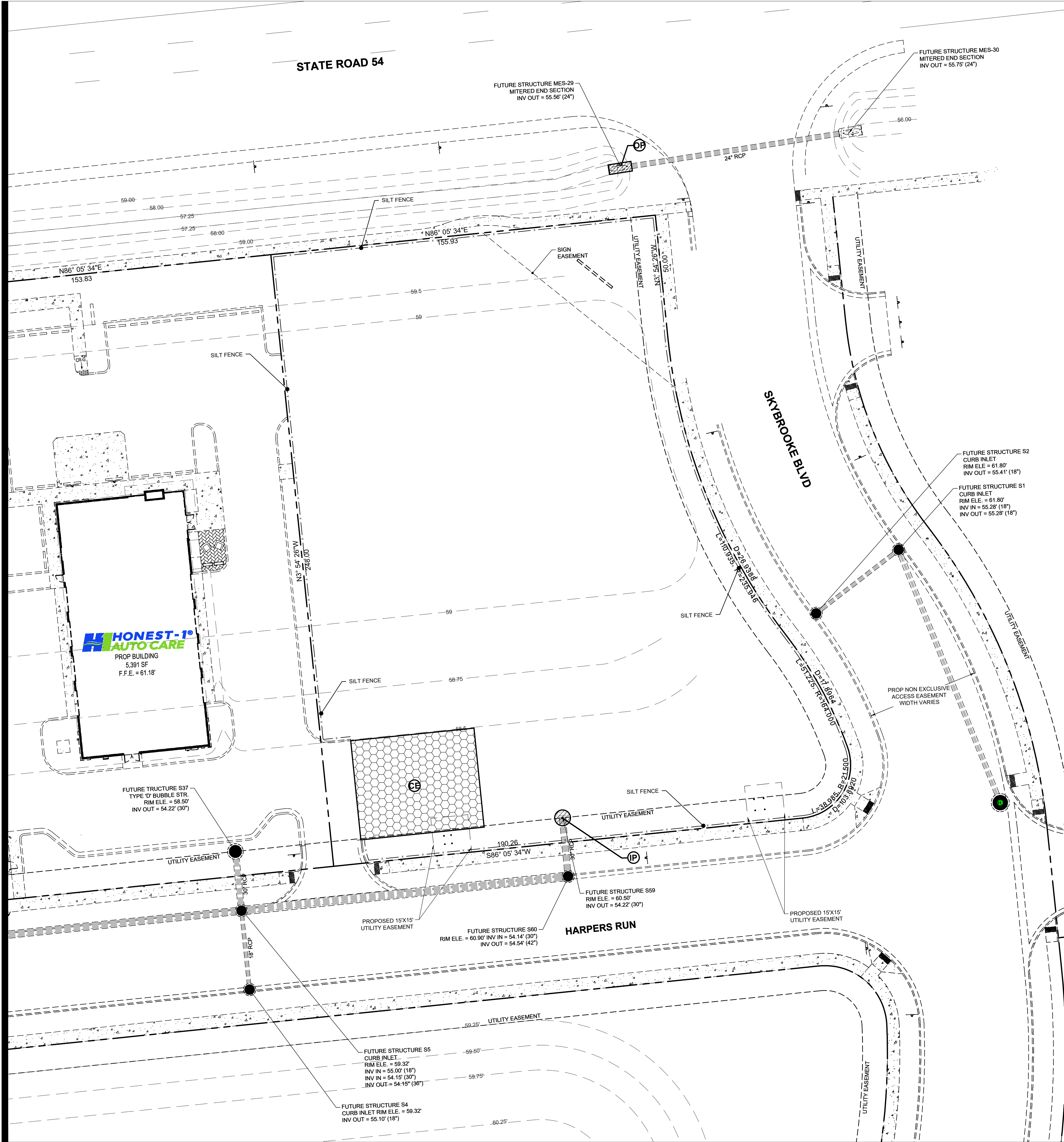
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PANDA PROJECT #: D8135
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ARCH PROJECT #:



BUILDING AREA
GRADING DETAIL

C05.1



EROSION CONTROL LEGEND		
ESPC BMP	LINETYPE/SYMBOL	REFERENCE
Co	CONSTRUCTION EXIT	SHEET C06.4
SR	CONSTRUCTION EXIT	SHEET C06.4
SF	SILT FENCE - TYPE C	SHEET C06.5
SF	SILT FENCE - TYPE C DOUBLE	SHEET C06.5
IP	INLET PROTECTION	SHEET C06.6
OP	OUTLET PROTECTION	SHEET C06.7
DU	DUST CONTROL	SHEET C06.7
Ts	TEMPORARY SEEDING	SHEET C06.4
Ps	PERMANENT SEEDING	SHEET C06.8
M	MULCHING	SHEET C06.8
So	SODDING	SHEET C06.7
SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS		

- ### ESPC NOTES
- GENERAL
- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES AND PRACTICES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE EXPENSE OF THE CONTRACTOR.
 - THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.
 - EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
 - ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
 - ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
 - THE PERMITEE IS ONLY RESPONSIBLE FOR THE FOR THE INSTALLATION AND MAINTENANCE OF STORM WATER MANAGEMENT DEVICES PRIOR TO STABILIZATION OF THE SITE AND NOT THE OPERATION AND MAINTENANCE OF SUCH STRUCTURES AFTER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
 - EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
 - SEE GRADING & DRAINAGE NOTES.

- SLOPES AND DISTURBED AREA STABILIZATION
- CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:1V OR STEEPER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
 - ALL CUT AND FILL SLOPES MUST BE SURFACE ROUGHENED AND VEGETATED WITHIN (7) DAYS OF THEIR CONSTRUCTION.
 - ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.
 - PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS.
 - WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.
- DRAINAGE
- ALL DRAINAGE STRUCTURES SHALL BE EROSION PROOFED.
 - LENGTH OF RIP-RAP PADS AT PIPE OUTLETS SHALL BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE IN FEET.
 - A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT UNDISTURBED AND MAINTAINED THROUGH ALL PHASES OF CONSTRUCTION. REFER TO PLANS FOR EXACT LOCATIONS.

- TREE PROTECTION
- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
 - ALL TREE PROTECTION DEVICES SHALL BE INSTALLED PRIOR TO START OF LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED.
 - NO PARKING, STORAGE, OR OTHER CONSTRUCTION SITE ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
- MAINTENANCE AND INSPECTIONS
- SEDIMENT AND EROSION CONTROL MEASURES AND PRACTICES SHALL BE INSPECTED DAILY.
 - SEDIMENT STORAGE MAINTENANCE INDICATORS MUST BE INSTALLED IN SEDIMENT STORAGE STRUCTURES, INDICATING THE 1/3 FULL VOLUME.
 - SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
 - ALL TREE PROTECTION FENCING TO BE INSPECTED DAILY AND REPLACED OR REPAIRED AS NEEDED.
 - MAINTENANCE OF ALL SOIL AND SEDIMENTATION CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT, SHALL BE AT ALL TIMES THE RESPONSIBILITY OF THE CONTRACTOR.

BASED IN THE WEB SOIL SURVEY INFORMATION, ALL SOILS AT THIS SITE ARE CLASSIFIED AS 5 - MYAKKA-MYAKKA, WET, FINE SANDS, 0 TO 2 PERCENT SLOPES.

TOTAL DISTURBED AREA THIS PHASE: 0.00 AC.

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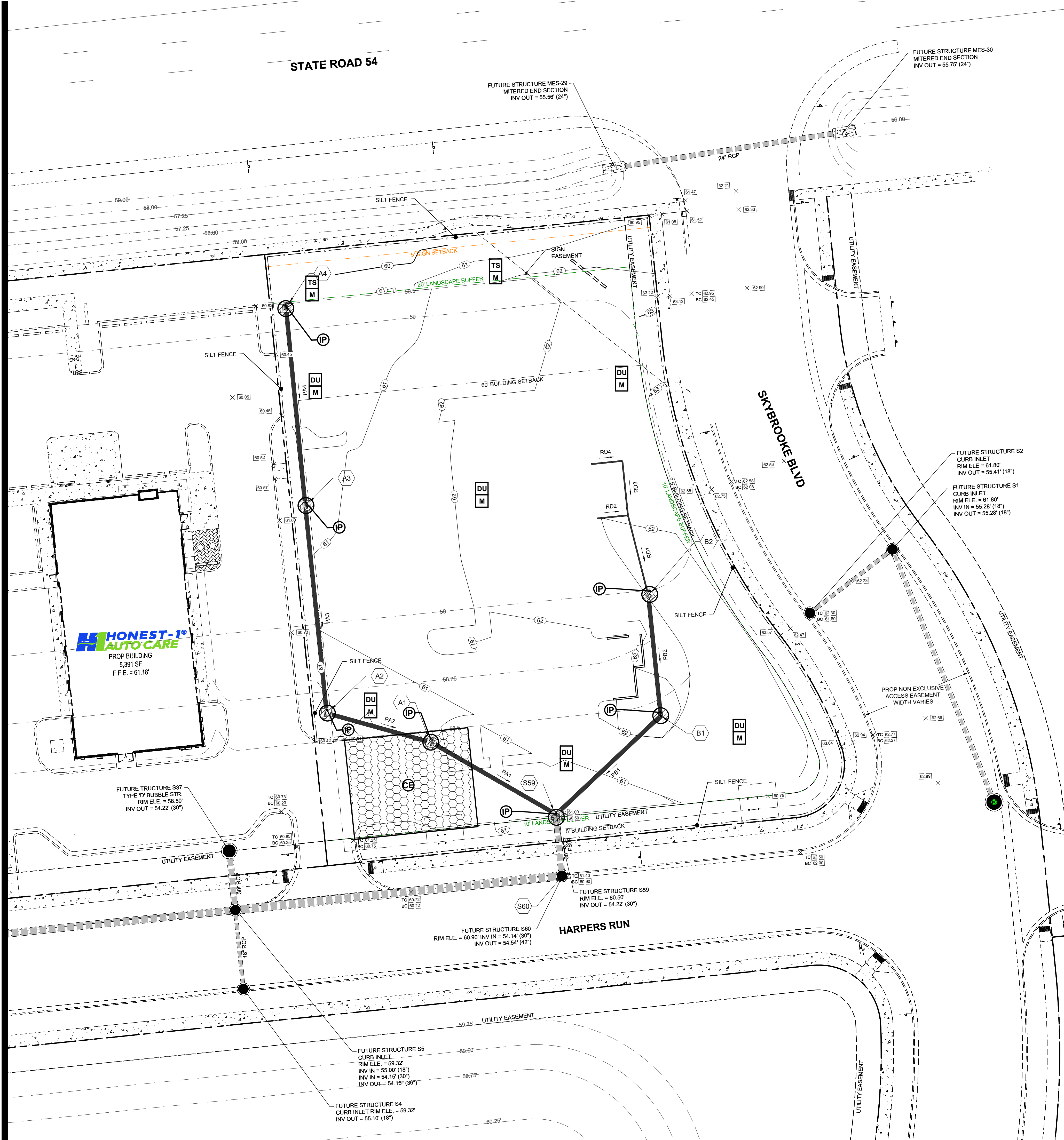
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ESPC PLAN
CLEARING PHASE
C06.1

TRUE WARM & WELCOME 2300



EROSION CONTROL LEGEND

ESPC BMP	LINETYPE/SYMBOL	REFERENCE
Co	CONSTRUCTION EXIT	SHEET C06.4
SR	CONSTRUCTION EXIT	SHEET C06.4
SF	SILT FENCE - TYPE C	SHEET C06.5
SF	SILT FENCE - TYPE C DOUBLE	SHEET C06.5
IP	INLET PROTECTION	SHEET C06.6
OP	OUTLET PROTECTION	SHEET C06.7
DU	DUST CONTROL	
Ts	TEMPORARY SEEDING	Ts SHEET C06.4
Ps	PERMANENT SEEDING	Ps SHEET C06.8
M	MULCHING	M SHEET C06.8
So	SODDING	So SHEET C06.7

SEE LANDSCAPE/TREE PROTECTION PLANS FOR LEGEND SPECIFIC TO THOSE SHEETS

ESPC NOTES

GENERAL

- EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL MEASURES AND PRACTICES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE AT THE EXPENSE OF THE CONTRACTOR.
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- ANY AMENDMENT TO THE EROSION CONTROL PLANS WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL.
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- EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.
- SEE GRADING & DRAINAGE NOTES.

SLOPES AND DISTURBED AREA STABILIZATION

- CONCENTRATED FLOW AREAS AND ALL SLOPES 2H:1V OR STEEPER SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKET.
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- ALL DISTURBED AREAS SHALL BE GRASSED AS SOON AS CONSTRUCTION PHASES PERMIT. NO EXPOSED GRADE WILL BE LEFT UNSTABLE FOR MORE THAN 7 DAYS.
- PERMANENT GRASSING AND LANDSCAPING OF DISTURBED AREAS SHALL BE COMPLETED AS QUICKLY AS POSSIBLE. TEMPORARY STABILIZATION BY MULCHING AND/OR TEMPORARY SEEDING WILL BE REQUIRED IN THE EVENT OF PROJECT DELAYS.
- WIRE MESH REINFORCED SEDIMENT BARRIERS SHALL BE PLACED AT THE TOE OF ALL FILL SLOPES.

DRAINAGE

- ALL DRAINAGE STRUCTURES SHALL BE EROSION PROOFED.
- LENGTH OF RIP-RAP PADS AT PIPE OUTLETS SHALL BE A MINIMUM LENGTH OF (6) SIX TIMES THE DIAMETER OF THE PIPE IN FEET.
- A 25' UNDISTURBED VEGETATIVE STREAM BUFFER ADJACENT TO ALL RUNNING STREAMS AND CREEKS WILL BE LEFT UNDISTURBED AND MAINTAINED THROUGH ALL PHASES OF CONSTRUCTION. REFER TO PLANS FOR EXACT LOCATIONS.

TREE PROTECTION

- ALL BUFFERS AND TREE SAVE AREAS SHALL BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.
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MAINTENANCE AND INSPECTIONS

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- SEDIMENT CONTROL DEVICES MUST BE INSPECTED DAILY AND CHECKED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN THEY REACH 1/3 OF DESIGN CAPACITY.
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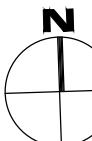
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0 20 40 Feet
SCALE 1" = 20'



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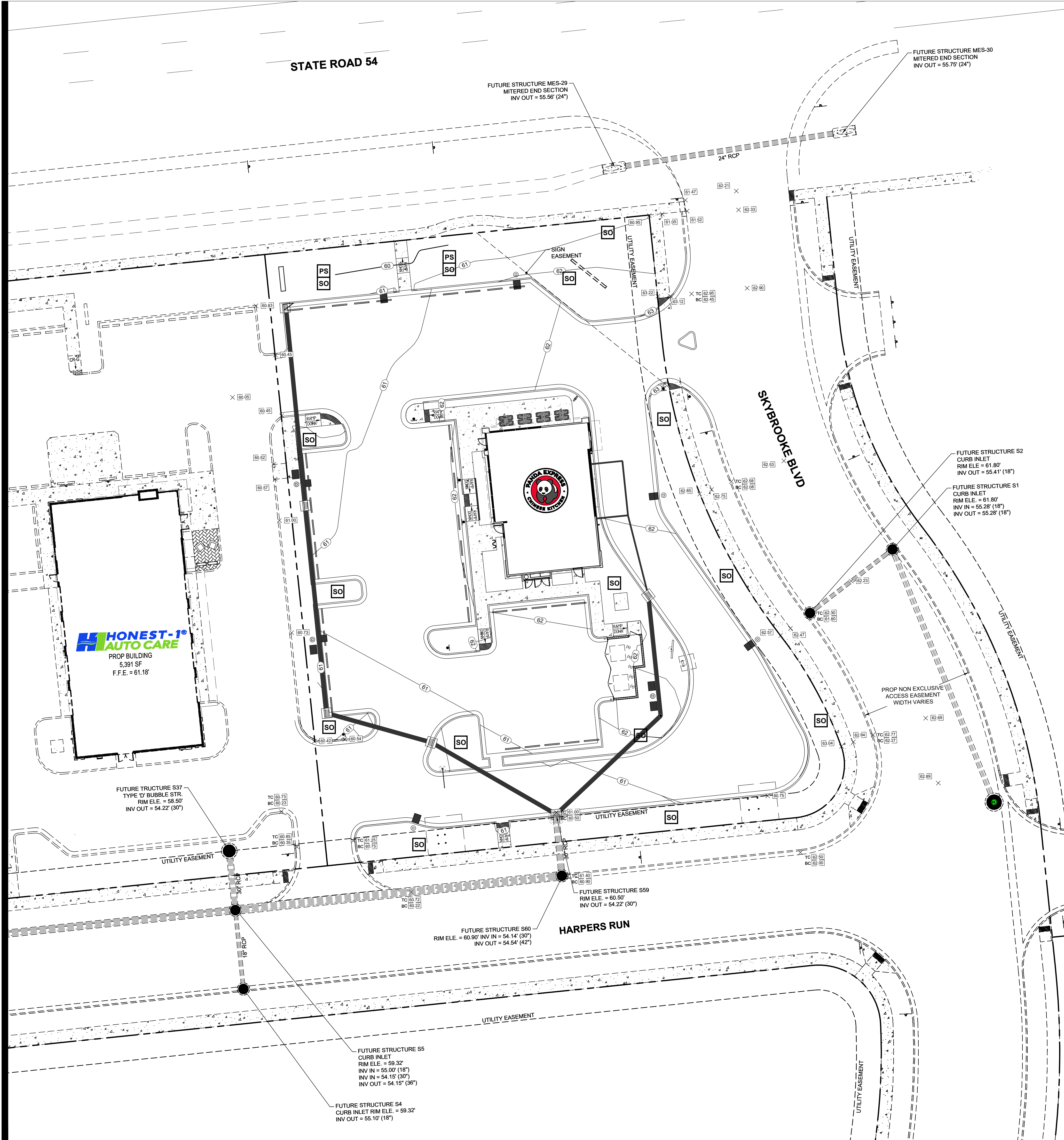
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PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



ESPC PLAN
GRADING PHASE
C06.2

TRUE WARM & WELCOME 2300



EROSION CONTROL LEGEND

ESPC BMP	LINETYPE/SYMBOL	REFERENCE
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SR	CONSTRUCTION EXIT	SHEET C06.4
SF	SILT FENCE - TYPE C	SHEET C06.5
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ESPC PLAN
FINAL PHASE
C06.3

4.03 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE & EXIT
(ES BMP 1.01)

Definition

A stone stabilized pad located at points of vehicular ingress and egress on a construction site.

Purpose

To stabilize entrances to the construction site and reduce the amount of sediment transported onto public roads by motor vehicles or runoff.

Conditions Where Practice Applies

Wherever traffic will be leaving a construction site and moving directly onto a public road or other paved area.

Planning Considerations

Construction entrances provide an area where mud can be removed from construction vehicle tires before they enter a public road. If the action of the vehicle traveling over the gravel pad is not sufficient to remove most of the mud, then the tires must be washed before the vehicle enters a public road. If washing is used, provisions must be made to intercept the wash water and trap the sediment before it is carried off-site. Construction entrances should be used in conjunction with the stabilization of construction roads to reduce the amount of mud picked up by construction vehicles.

Design Criteria

Aggregate Size

FDOT No. 1 Coarse Aggregate (1.5 - 3.5 inch stone)(4 - 9 cm) should be used. Wood chips may be used for single family residential construction, provided that they can be prevented from floating away in a storm.

Entrance Dimensions

The aggregate layer must be at least 6 inches (15 cm) thick. It must extend the full width of the vehicular ingress and egress area. The length of the entrance must be at least 50 feet (20 m). The entrance must widen at its connection to the roadway in order to accommodate the turning radius of large trucks. (See Plate 4.03a)

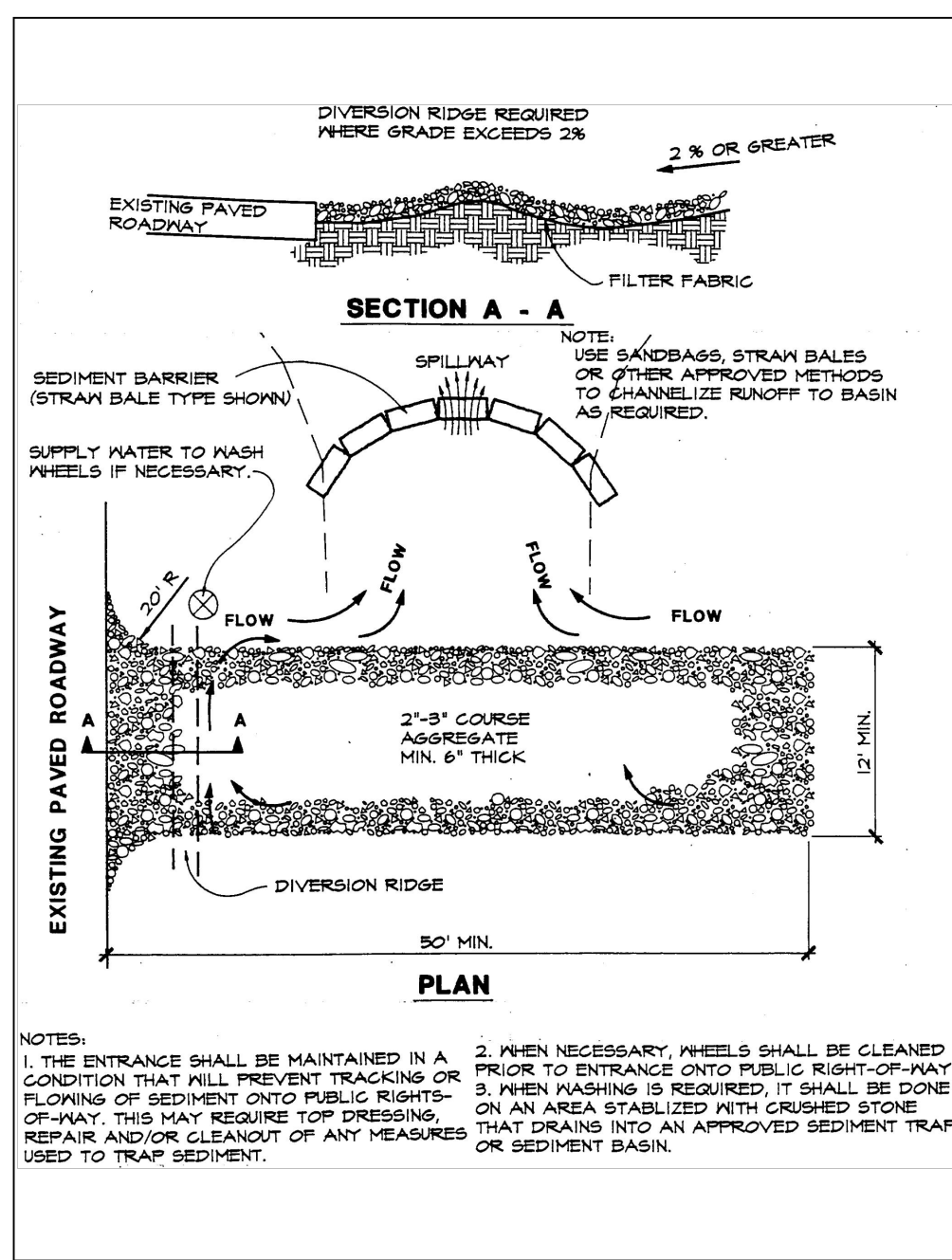


Plate 4.03a Temporary Gravel Construction Entrance
Source: Erosion Draw

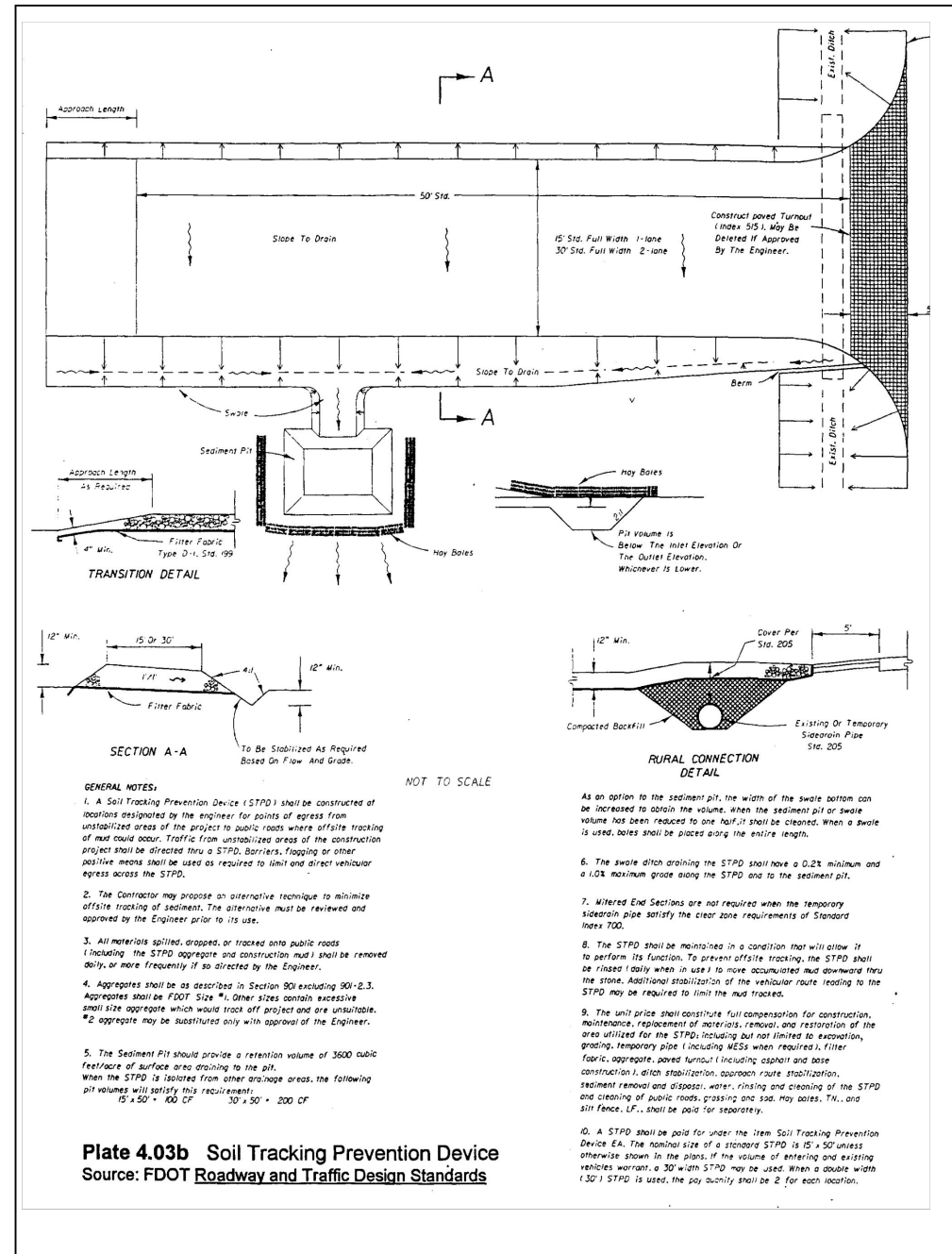


Plate 4.03b Soil Tracking Prevention Device
Source: FDOT Roadway and Traffic Design Standards

Washing

If conditions on the site are such that most of the mud is not removed by the vehicles traveling over the gravel, then the tires of the vehicles must be washed before entering a public road. Wash water must be carried away from the entrance to a settling area to remove sediment (See Plate 4.03b). A wash rack may also be used to make washing more convenient and effective (See Plate 4.03c).

Location

The entrance should be located to provide for maximum utility by all construction vehicles.

Construction Specifications

The area of the entrance should be cleared of all vegetation, roots, and other objectionable material. A geotextile should be laid down to improve stability and simplify maintenance. The gravel shall then be placed over the geotextile to the specified dimensions.

Any drainage facilities required because of washing should be constructed according to approved specifications. If wash racks are used, they should be installed according to manufacturer's specifications.

Maintenance

The entrance shall be maintained in a condition which will prevent tracking or flow of mud onto public rights-of-way. This may require periodic top dressing with 2-inch (5 cm) stone, as conditions demand, and repair and/or clean out of any structures used to trap sediments. All materials spilled, dropped, washed, or tracked from vehicles onto roadways or into storm drains must be removed immediately. Look for signs of trucks and trailered equipment "cutting corners" where the gravel meets the roadway. Sweep the paved road daily for sediments and stones.

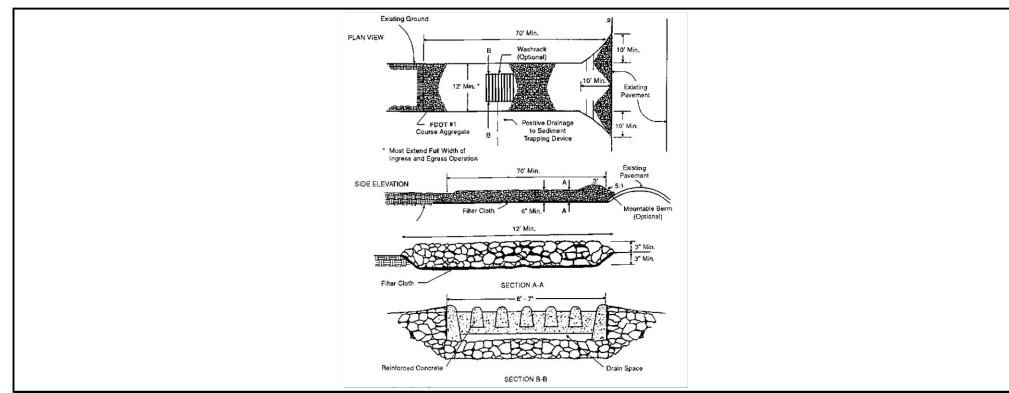


Plate 4.03c Construction Entrance with Wash Rack
Source: 1983 Maryland Standards for Soil Erosion and Sediment Control

CE CONSTRUCTION ENTRANCE / EXIT NTS

6.65 TEMPORARY SEEDING
(ES BMP 1. 65)

Definition

The establishment of a temporary vegetative cover on disturbed areas by seeding with appropriate rapidly growing annual plants.

Purposes

- To reduce erosion and sedimentation by stabilizing disturbed areas that will not be brought to final grade for a 30days or more.
- To reduce problems associated with mud and dust production from bare soil surfaces during construction.

Conditions Where Practice Applies

Where exposed soil surfaces are not to be fine graded for periods from 30 days or more. Such areas include denuded areas, soil stockpiles, dikes, dams, sides of sediment basins, temporary roadbanks, etc.

Specifications

Prior to seeding, install necessary erosion control practices such as dikes, waterways, and basins.

Plant Selection

Select plants appropriate to the season, region, and site conditions. Consult with your local Agricultural Extension agent, county, FDEP, WMD, or FDOT office, or Table 1.65a of The Florida Development Manual.

Seedbed Preparation

To control erosion on bare soil surfaces, plants must be able to germinate and grow. Seedbed preparation is essential. A soil test should be taken to determine liming and fertilization requirements. In the absence of a soil test the following guidelines should be followed:

- Liming:** Where soils are known to be highly acid (pH 6.0 and lower), lime should be applied at the rate of two tons of pulverized agricultural limestone per acre.
- Fertilizer:** Shall be applied as 450 lbs./acre of 10-20-20 (10 lbs./ 1,000 sq. ft.)(504 kg/ha) or equivalent. Lime and fertilizer shall be incorporated into the top 2 to 4 inches (5 to 10 cm) of the soil.
- Surface Roughening:** If the area has been recently loosened or disturbed, no

further roughening is required. When the area is compacted, crusted, or hardened, the soil surface shall be loosened by discing, raking, harrowing, or other acceptable means. See SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).

- Tracking:** Tracking with bulldozer cleats is most effective on sandy soils. This practice often causes undue compaction of the soil surface, especially in clayey soils, and does not aid plant growth as effectively as other methods of surface roughening.

Seeding

Seed shall be evenly applied with a cyclone seeder, drill, cultipacker seeder or hydroseeder. Small grains shall be planted no more than one inch deep. Grasses and legumes shall be planted no more than 1/4 inch (6 mm) deep.

Mulching

- Mulching should usually be used to reduce damage from water runoff or wind erosion, and to improve moisture conditions for seedlings. Mulching without seeding should be considered for very short term protection. The use of mulch is a judgment decision based on time of seeding and conditions of individual sites. When used, mulch shall be applied according to MULCHING - Section 6.75 (ES BMP 1.75).
- Seedlings made on slopes in excess of 3:1, or on adverse soil conditions, or during excessively hot or dry weather, shall be mulched according to MULCHING - Section 6.75 (ES BMP 1.75).
- Seedlings made during optimum spring and summer seeding dates, with favorable soil and site conditions, may not require mulch.

Re-seeding

Areas which fail to establish vegetative cover adequate to prevent rill erosion will be filled in with proper topsoil and re-seeded as soon as such areas are identified.

TS TEMPORARY SEEDING NTS



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ESPC DETAILS I
C06.4

TRUE WARM & WELCOME 2300

4.06 SILT FENCE
(ES BMP 1.06)

Definition

A temporary sediment barrier consisting of a filter fabric stretched across and attached to supporting posts and entrenched. There are two types. The silt fence is a temporary linear filter barrier constructed of synthetic filter fabric, posts, and, depending upon the strength of the fabric used, wire fence for support. The filter barrier is constructed of stakes and burlap or synthetic filter fabric.

Purposes

- To intercept and detain small amounts of sediment from disturbed areas during construction operations.
- To decrease the velocity of sheet flows and low-to-moderate level channel flows.

Conditions When Practice Applies

- Below disturbed areas where erosion would occur in the form of sheet and rill erosion.
- Where the size of the drainage area is no more than 1/4 acre per 100 feet (1.3 ha /100 m) of silt fence length; the maximum slope length behind the barrier is 100 feet (30 m); and the maximum gradient behind the barrier is 50 percent (2:1).
- In minor swales or ditch lines where the maximum contributing drainage area is no greater than 2 acres (0.8 ha).
- Under no circumstances should silt fences be constructed in live streams or in swales or ditch lines where flows are likely to exceed one cubic foot per second (cfs)(0.03 m³ / sec.). See Design Criteria for further clarification.

Planning Considerations

Silt fences can trap a much higher percentage of suspended sediments than can straw bales and may be preferable to straw barriers in many cases. While the failure rate of silt fences is lower than that of straw barriers, this failure rate is still due mainly to improper installation. The most effective application is to install two parallel silt fences spaced a minimum of three feet apart. The installation and maintenance methods outlined here can improve performance.

Filter barriers are inexpensive structures composed of burlap or standard weight synthetic filter fabric stapled to wooden stakes. Flow rates through burlap filter barriers are slightly slower and filtering efficiency is significantly higher than for straw bale barriers.

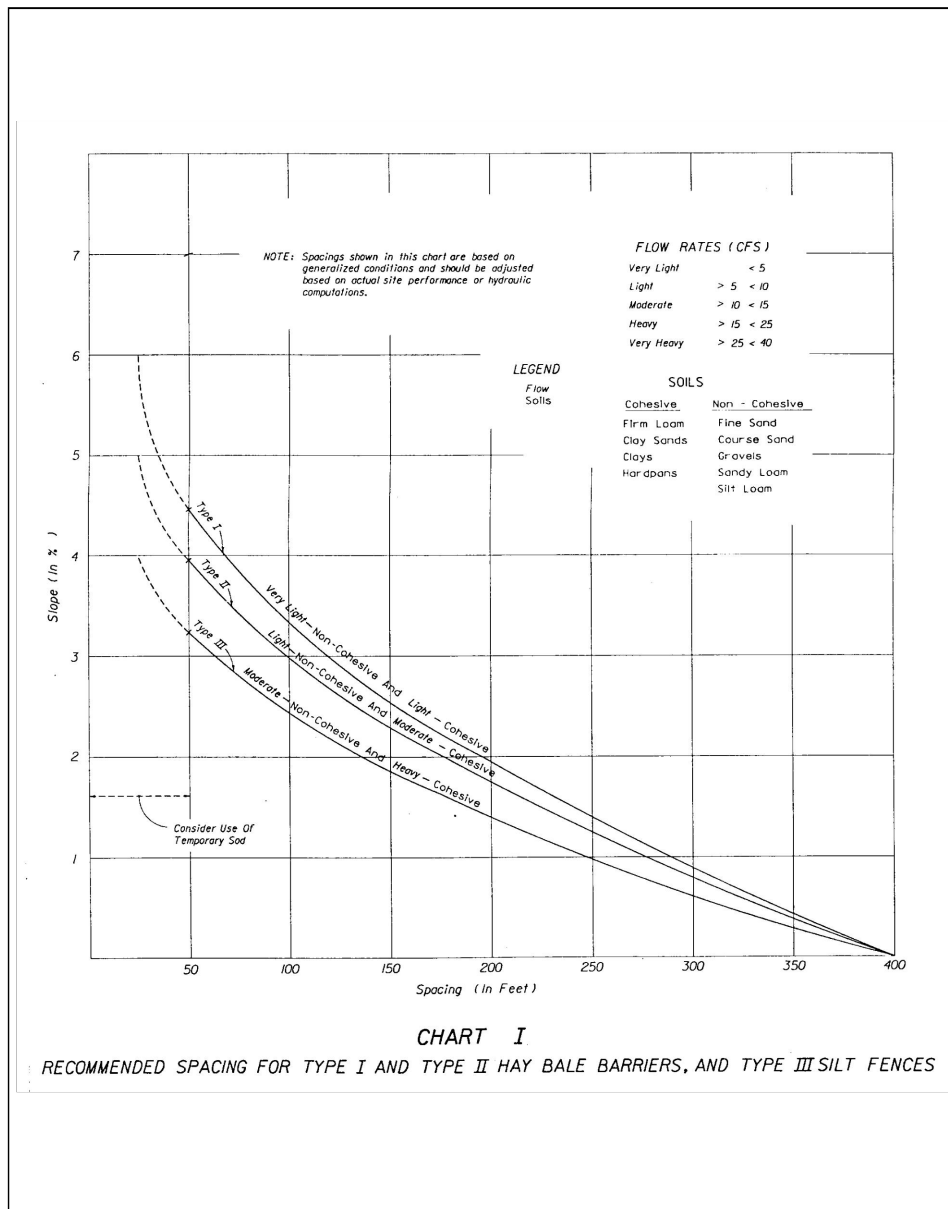


Plate 4.06a FDOT Standard Index 102, Chart 1
Source: FDOT Roadway and Traffic Design Standards

Silt fences composed of a wire support fence and an attached synthetic filter fabric slow the flow rate significantly but have a higher filtering efficiency than burlap. Both woven and non-woven synthetic fabrics are commercially available. The woven fabrics generally display higher strength than the non-woven fabrics. When tested under acid and alkaline water conditions, most of the woven fabrics increase in strength. There are a variety of reactions among the non-woven fabrics. The same is true of testing under extensive ultraviolet radiation. Permeability rates vary regardless of fabric type. While all of the fabrics demonstrate very high filtering efficiencies for sandy sediments, there is considerable variation among both woven and non-woven fabrics when filtering the finer silt and clay particles.

Design Criteria

- No formal design is required for many small projects and for minor and incidental applications. For channel flow applications refer to FDOT Standard Index 102, Chart 1 (Plate 4.06a) for guidance on recommended spacing.
- Filter barriers shall have an expected usable life of 3 months. They are applicable in ditch lines, around drop inlets, and at temporary locations where continuous construction changes the earth contour and runoff characteristics and where low or moderate flows (not exceeding 1 cfs) (0.03 m³ / sec.) are expected.
- Silt fences, because they have much lower permeability than burlap filter barriers, have their applicability limited to situations in which only sheet or overland flows are expected. They normally cannot filter the volumes of water generated by channel flows, and many fabrics do not have sufficient structural strength to support the weight of water ponded behind the fence line. Their expected usable life is 6 months.

Construction Specifications

Materials

- Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester, or polyethylene yarn. Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of 6 months of expected usable construction life at a temperature range of 0° F to 120° F (-17C to 49C).
- Burlap shall be 10 ounces per square yard (340 g/m²) fabric.
- Posts for silt fences shall be either 4 inch (10 cm) diameter wood, or 1.33 pounds per linear foot (2 kg/m) steel with a minimum length of 5 feet (1.5 m). Steel posts shall have projections for fastening wire to them.
- Stakes for filter barriers shall be 1" x 2" (2.5 x 5 cm) wood (preferred), or equivalent metal with a minimum length of 3 feet (90 cm).

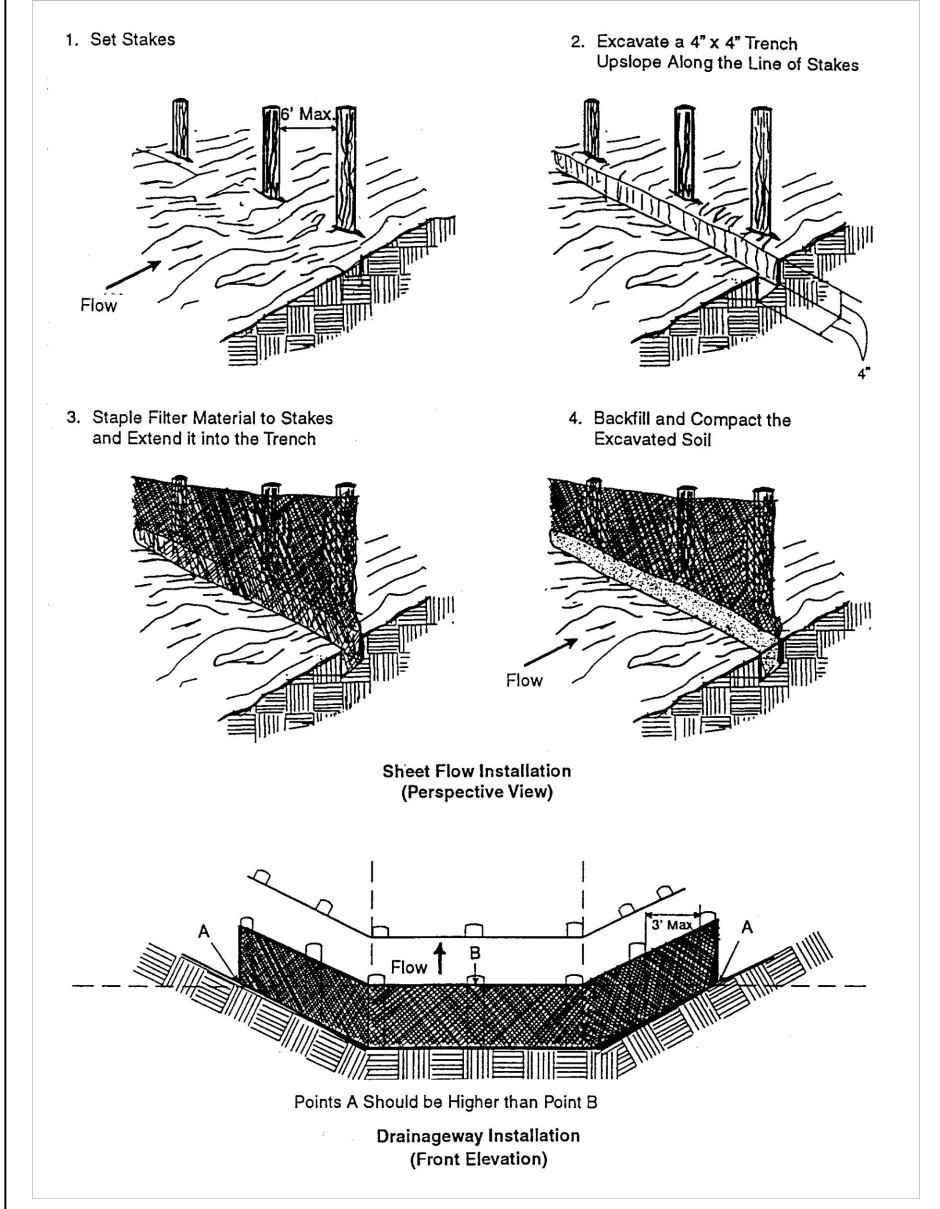


Plate 4.06b Construction of a Filter Barrier
Source: NRCS

- Wire fence reinforcement for silt fences using standard strength filter cloth shall be a minimum of 36 inches (90 cm) in height, a minimum of 14 gauge and shall have a maximum mesh spacing of 6 inches (15 cm).

Sheet Flow Applications: Filter Barrier

This sediment barrier may be constructed using burlap or standard strength synthetic filter fabric. It is designed for low or moderate flows not exceeding 1 cfs. (0.03 m³ / sec.). (See Plate 4.06b)

- The height of a filter barrier shall be a minimum of 15 inches (38 cm) and shall not exceed 18 inches (45 cm).
- Burlap or standard strength synthetic filter fabric shall be purchased in a continuous roll and cut to the length of the barrier to avoid the use of joints (and thus improve the strength and efficiency of the barrier).
- The stakes shall be spaced a maximum of 3 feet (90 cm) apart at the barrier location and driven securely into the ground a minimum of 8 inches (20 cm).
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep along the line of stakes and upslope from the barrier.
- The filter material shall be stapled to the wooden stakes, and 8 inches (20 cm) of the fabric shall be extended into the trench. Heavy duty wire staples at least 1/2 inch (13 mm) long, hog rings, or tie wire shall be used. Filter material shall not be stapled to existing trees.
- The trench shall be backfilled and the soil compacted over the filter material.
- Filter barriers shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

Sheet Flow Application: Silt Fence

This sediment barrier uses standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected. (See Plate 4.06d)

- The height of a silt fence shall not exceed 36 inches (90 cm). Higher fences may impound volumes of water sufficient to cause failure of the structure.
- The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced as described in item No. 8 below.



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C1	1ST COUNTY COMMENTS	04/05/2021
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ALT. STANDARDS	12/17/2020
PRELIMINARY SITE PLAN	01/12/2021
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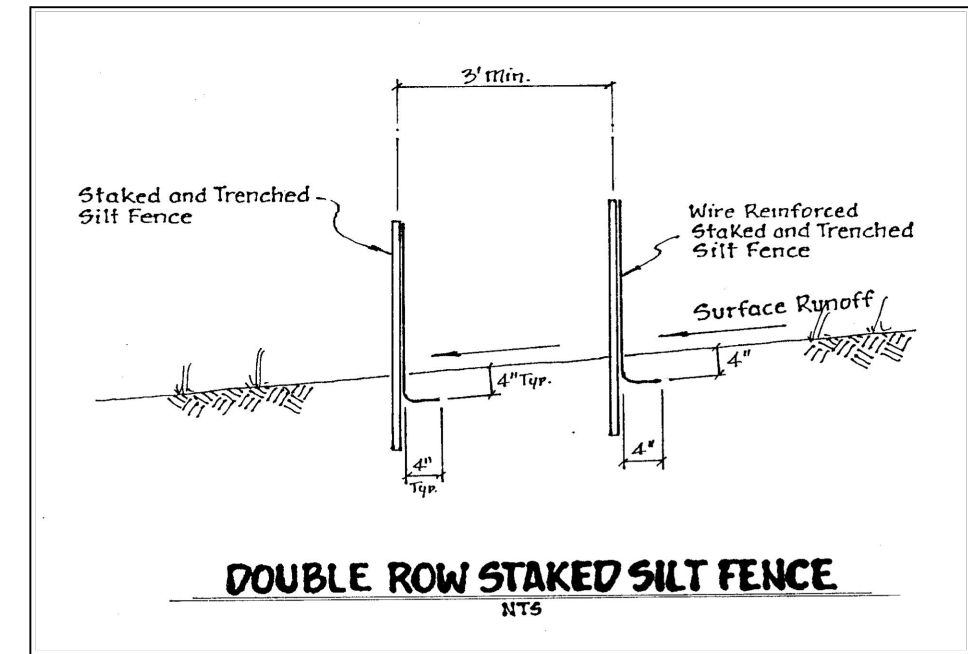


Plate 4.06c Double Row Staked Silt Fence
Source: Reedy Creek Improvement District

- Posts shall be spaced a maximum of 10 feet (3 m) apart at the barrier location and driven securely into the ground a minimum of 12 inches (30 cm). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet (1.8 m).
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep along the line of posts and upslope from the barrier.
- When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1 inch (25 mm) long, tie wires, or hog rings. The wire shall extend into the trench a minimum of 2 inches (5 cm) and shall not extend more than 36 inches (90 cm) above the original ground surface.
- The standard strength filter fabric shall be stapled or wired to the fence, and 8 inches (20 cm) of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches (90 cm) above the original ground surface.

- When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of item No. 6 applying.
- When attaching two silt fences together, place the end post of the second fence inside the end post of the first fence. Rotate both posts at least 180 degrees on a clockwise direction to create a tight seal with the filter fabric. Drive both posts into the ground and bury the flap. (See Plate 4.06g)
- The trench shall be backfilled and the soil compacted over the filter fabric.
- The most effective application consists of a double row of silt fences spaced a minimum of three feet apart. The three foot separation is so that if the first row collapses it will not fall on the second row. Wire or synthetic mesh is may be used to reinforce the first row. (See Plate 4.06c)
- When used to control sediments from a steep slope, silt fences should be placed away from the toe of the slope for increased holding capacity. (See Plate 4.06f)
- Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.

Channel Flow Applications

- If a filter barrier is to be constructed across a ditch line or swale, the barrier shall of sufficient length such that the bottom of the end sections of fence are higher in elevation than the top of the center section to eliminate end flow. The plan configuration shall resemble an arc or horseshoe with the ends oriented upslope. (See Plate 4.06b).

- Use FDOT Standard Index 102, Chart 1(Plate 4.06a) as a guide for spacing.

- The remaining steps for installing a filter barrier for sheet flow applications apply here.

Maintenance

- Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately.
- Should the fabric on a silt fence or filter barrier decompose or become ineffective before the end of the expected usable life and the barrier still be necessary, the fabric shall be replaced promptly.
- Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one-half the height of the barrier.

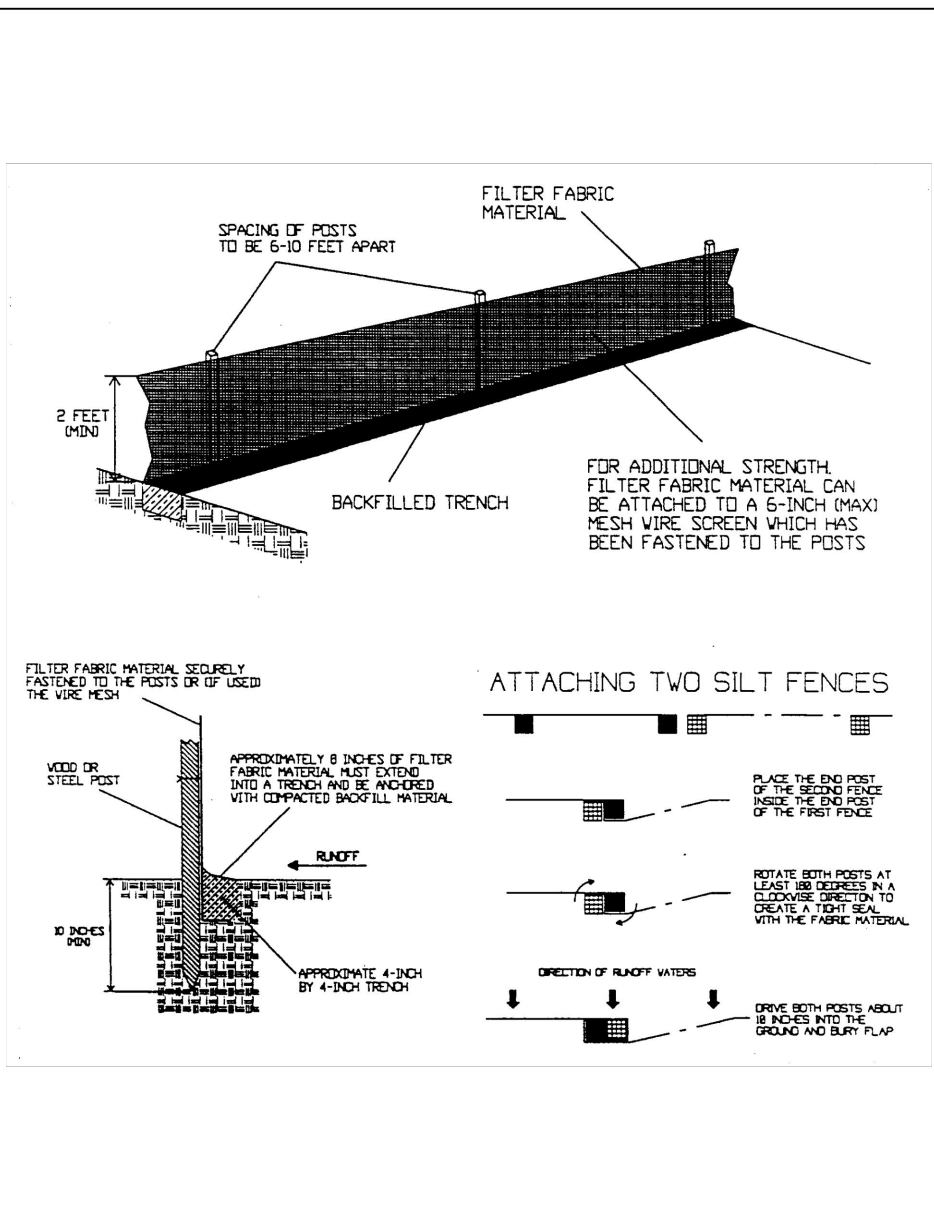


Plate 4.06d Installing a Filter Fabric Silt Fence
Source: HydroDynamics, Inc.

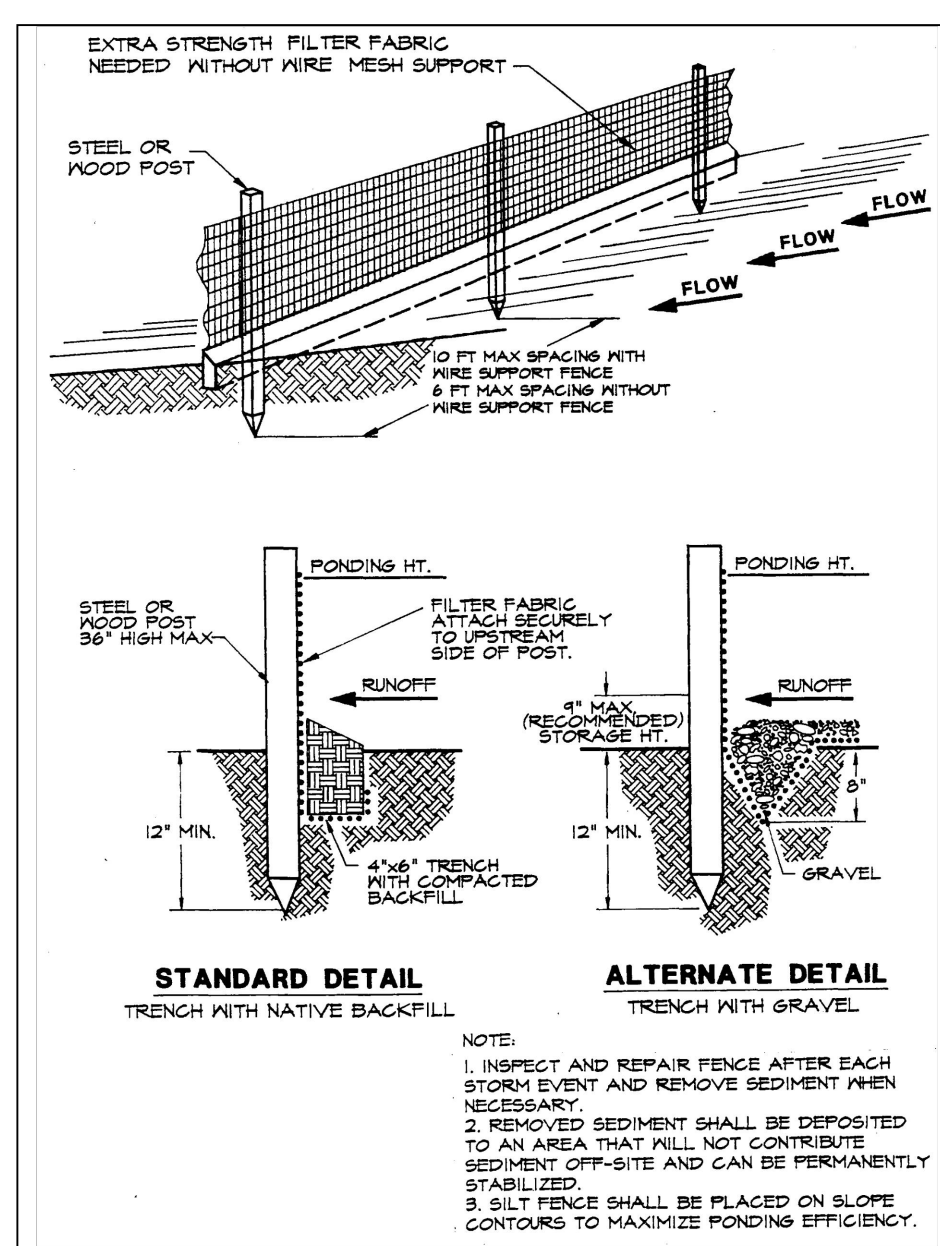


Plate 4.06e Silt Fence
Source: Erosion Draw

- Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared, and seeded.

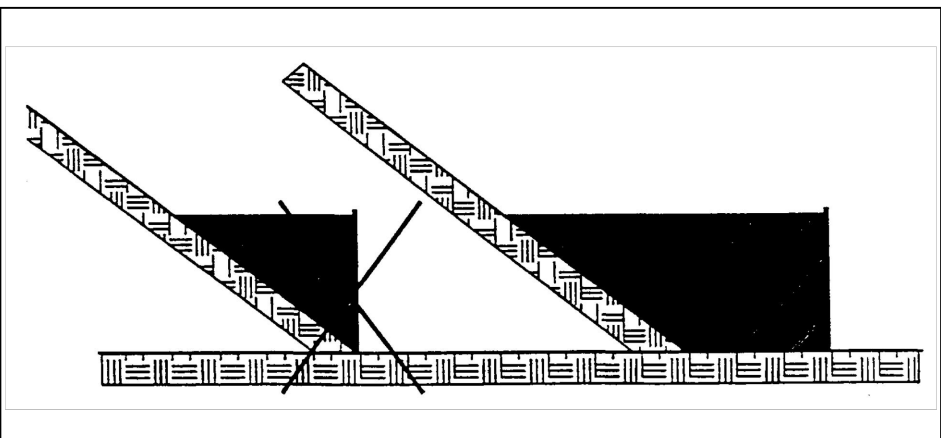


Plate 4.06f Proper Placement of a Silt Fence at the Toe of a Slope
Source: HydroDynamics, Inc.

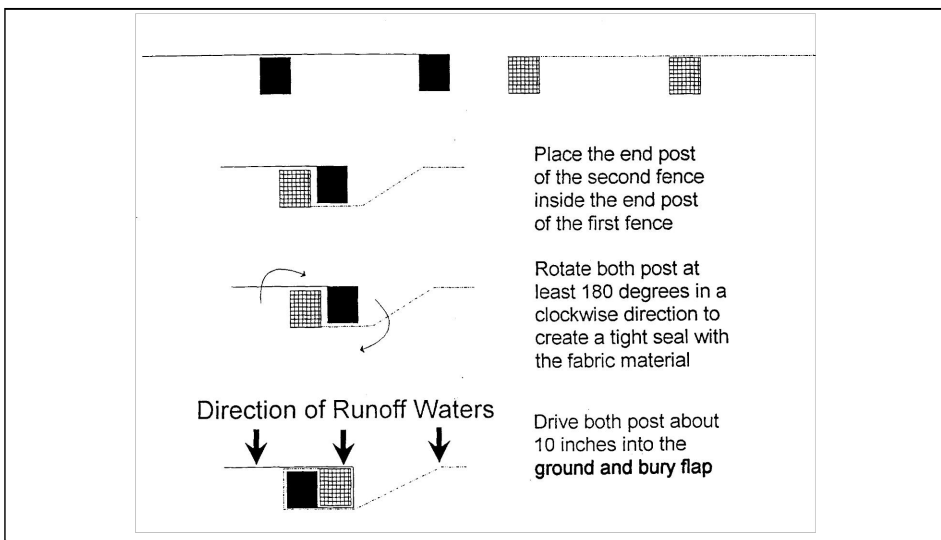


Plate 4.06g Attaching Two Silt Fences
Source: HydroDynamics, Inc.

4.08 STORM DRAIN INLET PROTECTION (ES BMP 1.08)

Definition

A sediment filter or an excavated impounding area around a storm drain drop inlet or curb inlet.

Purpose

To prevent sediment from entering storm water conveyance systems prior to permanent stabilization of the disturbed area.

Condition Where Practice Applies

Where storm drain inlets are to be made operational before permanent stabilization of the disturbed drainage area. Different types of structures are applicable to different conditions (see Plates 4.08a through 4.08h).

Planning Considerations

Storm sewers which are made operational before their drainage area is stabilized can convey large amounts of sediment to receiving waters. In case of extreme sediment loading, the storm sewer itself may clog and lose most of its capacity. To avoid these problems, it is necessary to prevent sediment from entering the system at the inlets.

This section contains several types of inlet filters and traps which have different applications dependent upon site conditions and type of inlet. Other innovative techniques for accomplishing the same purpose are encouraged, but only after specific plans and details are submitted to and approved by the stormwater permitting agency.

Note that these various inlet protection devices are for drainage areas of less than one acre (0.4 ha). Runoff from large disturbed areas should be routed through a TEMPORARY SEDIMENT TRAP - Section 4.25 (ES BMP 1.25).

Design Criteria

- The drainage area shall be no greater than 1 acre (0.4 ha).
- The inlet protection device shall be constructed to facilitate clean out and disposal of trapped sediment and to minimize interference with construction activities.
- The inlet protection devices shall be constructed so that any resultant ponding or stormwater will not cause excessive inconvenience or damage to adjacent areas or structures.
- Design criteria more specific to each particular inlet protection devices will be found on Plates 4.08a-h.

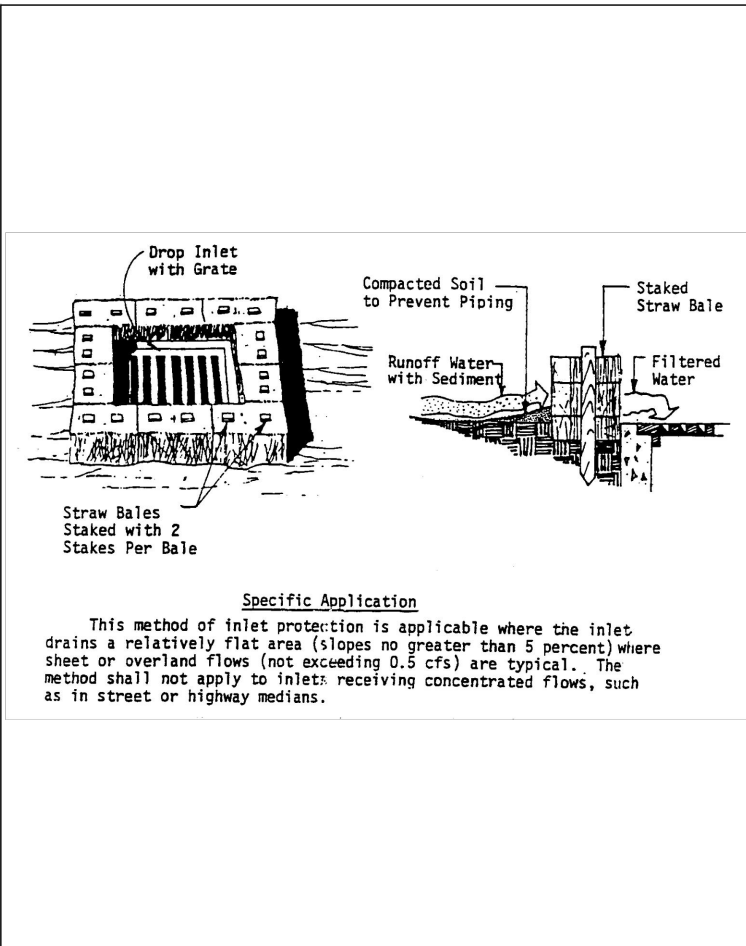


Plate 4.08a Straw Bale Drop Inlet Sediment Filter
Source: Michigan Soil Erosion and Sedimentation Control Guidebook

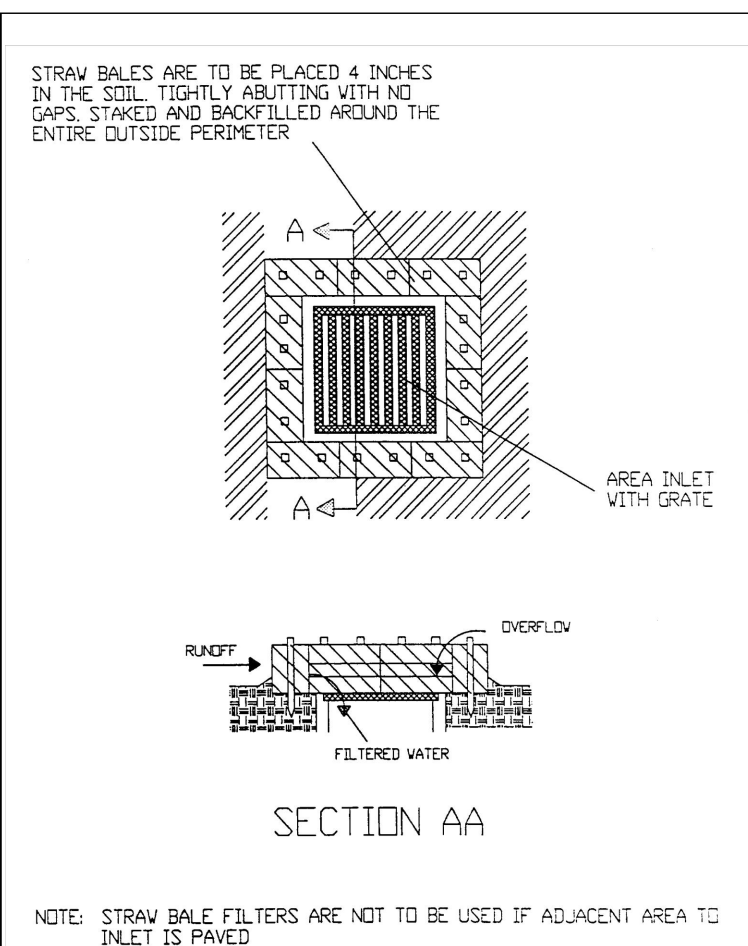


Plate 4.08b Straw Bale Filter for Area Inlet
Source: HydroDynamics, Inc.

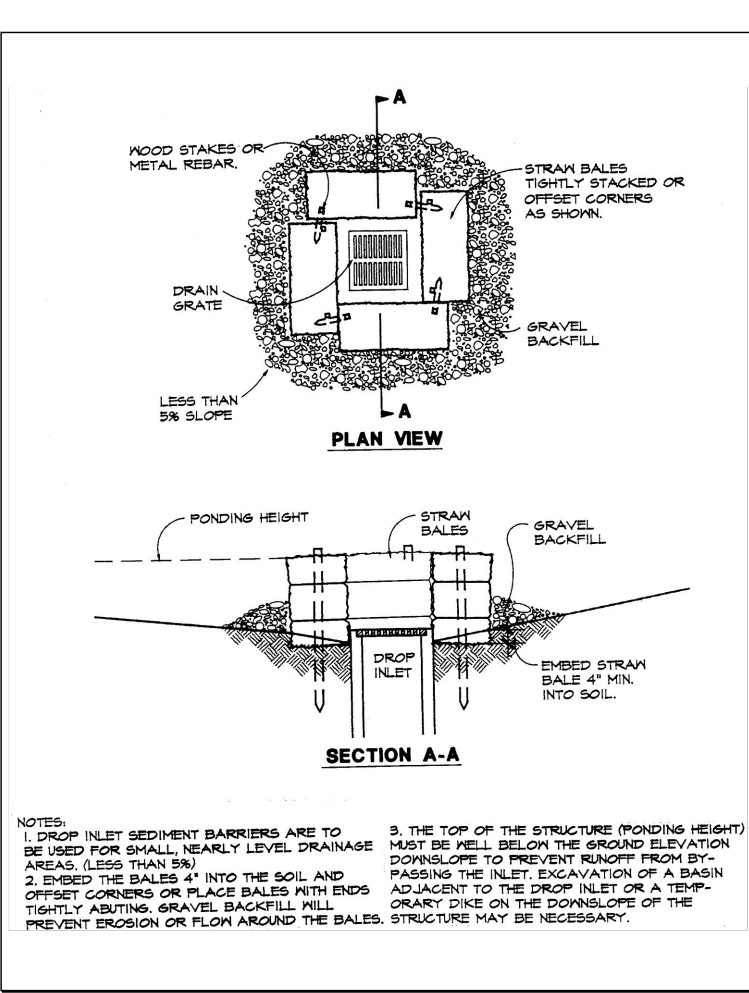


Plate 4.08c Straw Bale and Gravel Drop Inlet Sediment Barrier
Source: Erosion Draw

Construction Specifications

Straw bale drop inlet filter

- Bales shall be either wire-bound or string-tied with the bindings oriented around the sides rather than over and under the bales.
- Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together. (See Plate 4.08a)
- The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of a bale to a minimum depth of 4 inches (10 cm). After the bales are staked, the excavated soil shall be backfilled and compacted against the filter barrier. (See Plate 4.08b)
- Each bale shall be securely anchored and held in place by at least two stakes or rebars (See p. 4-17) driven through the bale.
- Loose straw should be wedged between bales to prevent water from entering between bales.
- Gravel may be spread around the bales to improve stability. (See Plate 4.08c)

Fabric drop inlet sediment filter

- Fabric shall be cut from a continuous roll to avoid joints.
- Stakes shall be 2" x 4" (5 cm x 10 cm) wood (preferred) or equivalent metal with a minimum length of 3 feet (90 cm). (See Plate 4.08d)
- Staples shall be of heavy duty wire at least 1/2-inch (13 mm) long.
- Stakes shall be spaced around the perimeter of the inlet a maximum of 3 feet (90 cm) apart and securely driven into the ground minimum of 8 inches (20 cm). A frame of 2" x 4" (5 cm x 10 cm) wood shall be constructed around the top of the stakes for proper stability.
- A trench shall be excavated approximately 4 inches (10 cm) wide and 4 inches (10 cm) deep around the outside perimeter of the stakes. (See Plate 4.08e)
- The burlap shall be stapled to the wooden stakes, and 8 inches (20 cm) of the fabric shall be extended into the trench. The height of the filter barrier shall be a minimum of 15 inches (38 cm) and shall not exceed 18 inches (45 cm).
- The trench shall be backfilled and the soil compacted over the burlap.

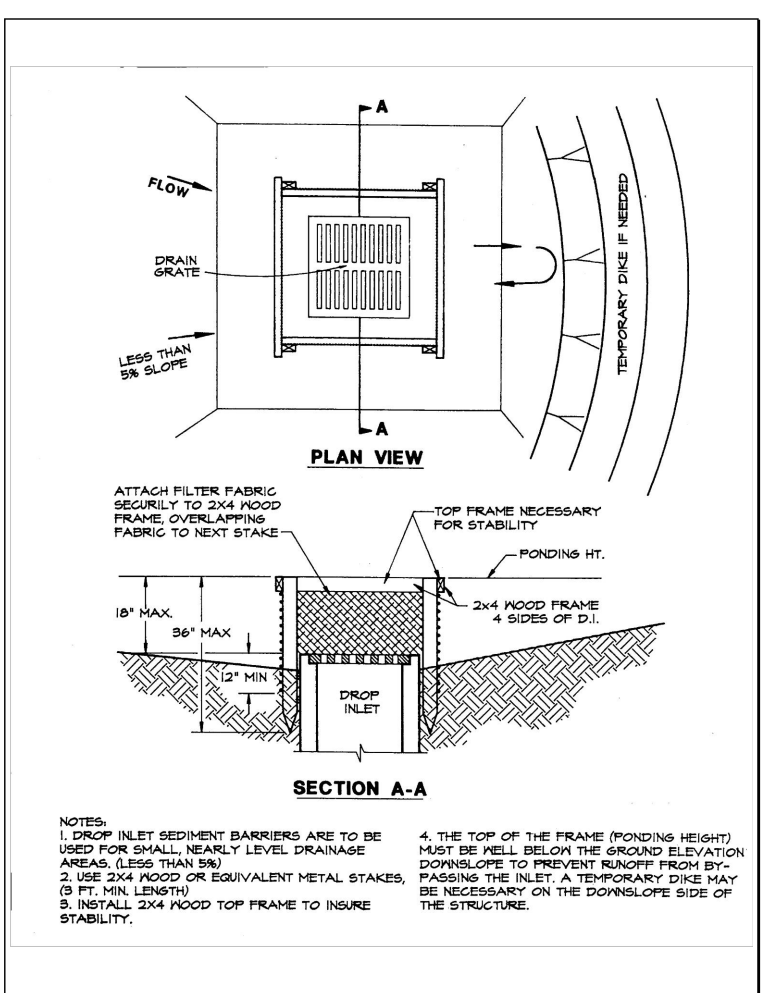


Plate 4.08d Silt Fence Drop Inlet Sediment Barrier
Source: Erosion Draw

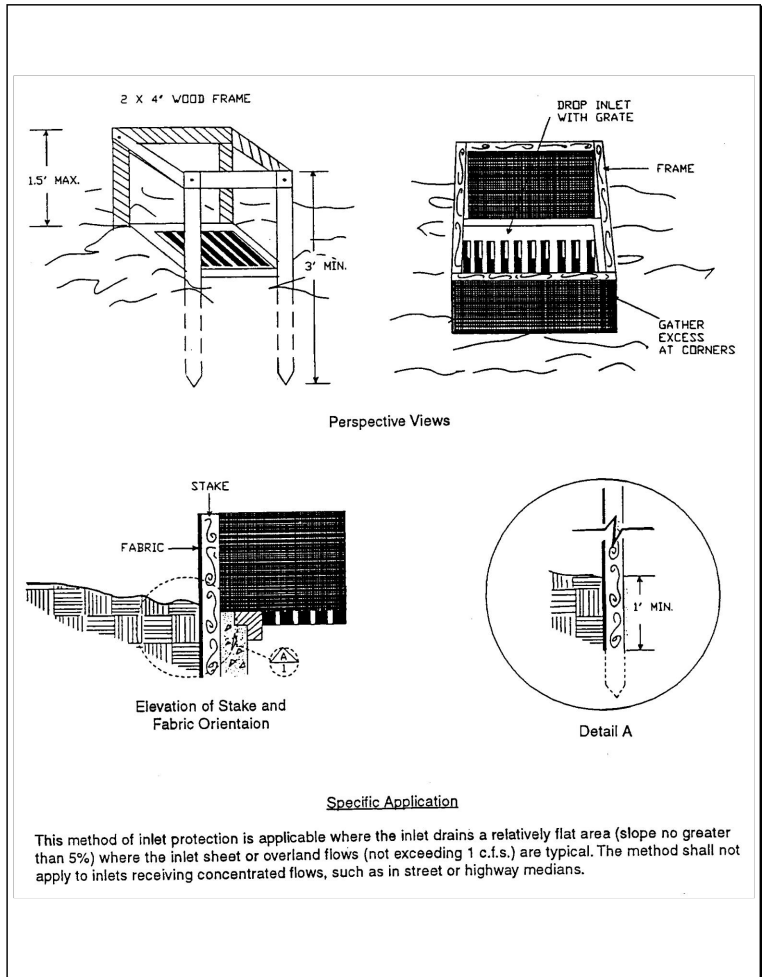


Plate 4.08e Filter Fabric Drop Inlet Sediment Filter
Source: North Carolina Erosion and Sediment Control Manual

Gravel and wire mesh drop inlet sediment filter

- Wire mesh shall be laid over the drop inlet so that the wire extends a minimum of one foot (30 cm) beyond each side of the inlet structure. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. If more than one strip of mesh is necessary, the strips shall be overlapped at least 1 ft. (30 cm).
- FDOT No. 1 Coarse Aggregate (1.5" to 3.5" stone/4-9 cm) shall be placed over the wire mesh as shown on Plate 4.08e. The depth of stone shall be at least 12 inches (30 cm) over the entire inlet opening. The stone shall extend beyond the inlet opening at least 18 inches (45 cm) on all sides. (See Plate 4.08f)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stones must be pulled away from the inlet, cleaned and replaced.

NOTE: This filtering device has no overflow mechanism. Therefore, ponding is likely especially if sediment is not removed regularly. This type of device must never be used where overflow may endanger an exposed fill slope. Consideration should also be given to the possible effects of ponding on traffic movement, nearby structures, working areas, adjacent property, etc.

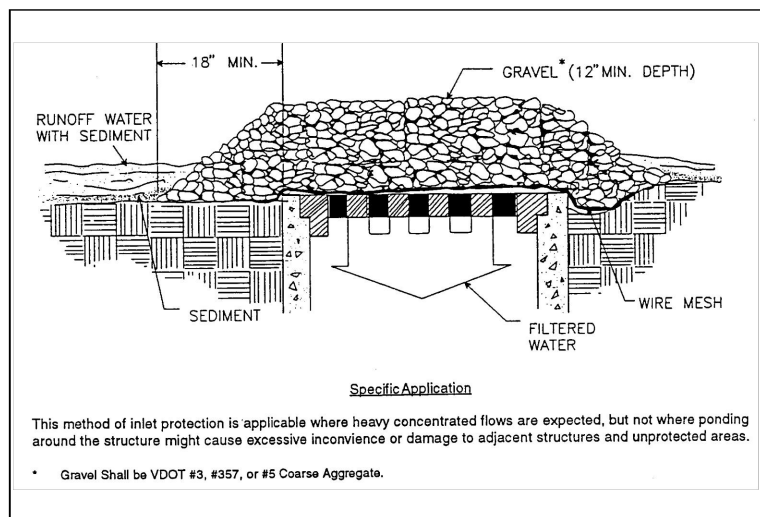


Plate 4.08f Gravel and Wire Mesh Drop Inlet Sediment Filter
Source: Virginia DSWC

Block and gravel drop inlet sediment filter

- Place concrete blocks lengthwise on their sides in a single row around the perimeter of the inlet, with the ends of adjacent blocks abutting. The height of the barrier can be varied, depending on design needs, by stacking combinations of 4 inch, 8 inch and 12 inch (10, 20, and 30 cm) wide blocks. The barrier of blocks shall be at least 12 inches (30 cm) high and no greater than 24 inches (60 cm) high.
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be used. (See Plate 4.08g)
- Stone shall be piled against the wire to the top of the block barrier. Suitable coarse aggregate shall be used. (See Plate 4.08h)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the blocks, cleaned and replaced.
- As a very temporary alternative, pervious burlap bags filled with gravel may be placed around the inlet provided that there are no gaps between the bags. (See Plate 4.08i)

Sod drop inlet sediment filter

- Soil shall be prepared and sod installed according to the specifications in SODDING - Section 5.67 (ES BMP 1.67).
- Sod shall be placed to form a turf mat covering the soil for a distance of 4 feet (1.2 m) from each side of the inlet structure. (See Plate 4.08j)

Prefabricated drop inlet internal filter bag (ACF Silt Sack)

- Remove the grate over the catch basin and insert the filter device, then replace grate to hold the device in position.
- When sediments have accumulated to within one foot (30 cm) of the grate the filter insert must be removed by a front-end loader or forklift. The filter may be discarded and replaced or it may be emptied, cleaned, and reused.

NOTE: This segment does not constitute a product endorsement.

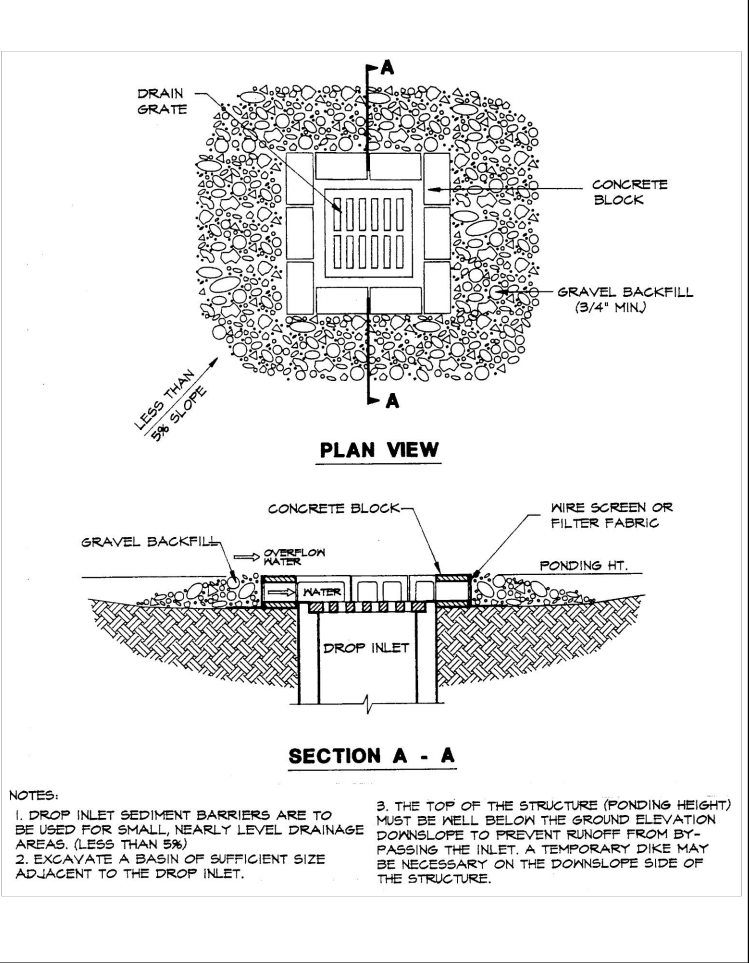


Plate 4.08g Block and Gravel Drop Inlet Sediment Filter
Source: Erosion Draw

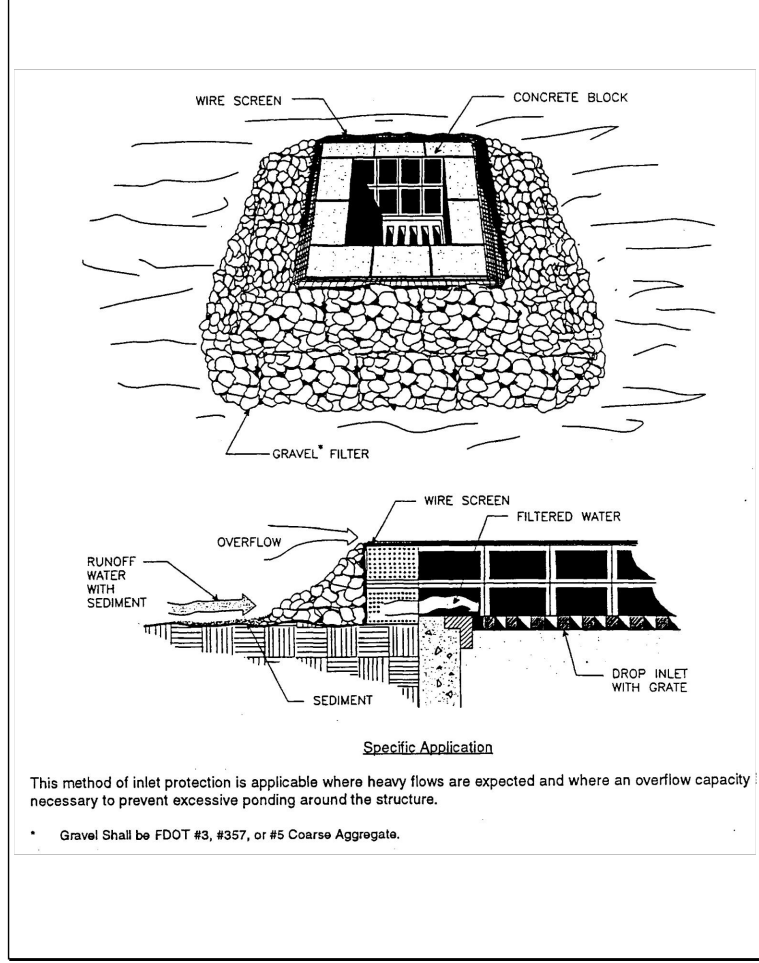


Plate 4.08h Block and Gravel Drop Inlet Sediment Filter
Source: Michigan Soil Erosion and Sedimentation Control Guidebook

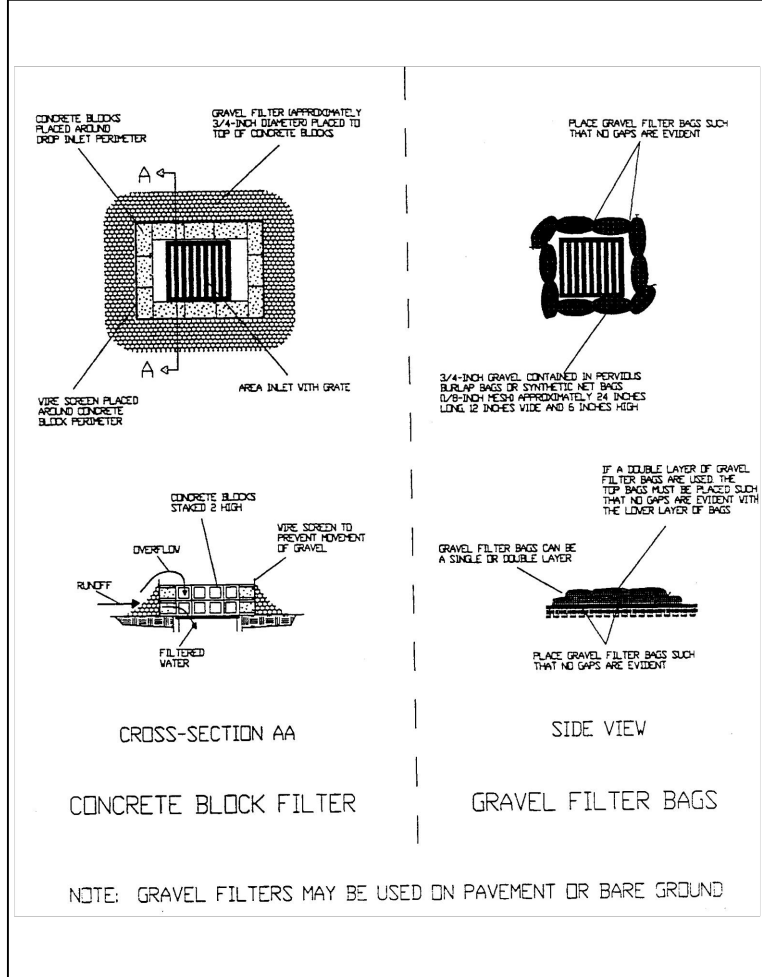


Plate 4.08i Gravel Filters for Area Inlets
Source: HydroDynamics, Inc.

Prefabricated drop inlet external filter (Suntree Isles Grate Inlet Protector)

- Place the device over the inlet. If the inlet has a grate, the device shall be secured to the grate by means of a long toggle bolt. If the grate is not present, the device shall be bolted directly to the concrete.
- Sediments shall be removed when they have accumulated to within one foot (30 cm) of the top of the device. The filter fabric elements shall be cleaned or replaced at that time.

NOTE: This segment does not constitute a product endorsement.

Gravel curb inlet sediment filter

- Hardware cloth or comparable wire mesh with 1/2 inch (13 mm) openings shall be placed over the curb inlet opening so that at least 12 inches (30 cm) of wire extends across the top of the inlet cover and at least 12 inches (30 cm) of wire extends across the concrete gutter from the inlet opening. (See Plate 4.08k)
- Stone shall be piled against the wire so as to anchor it against the gutter and inlet cover and to cover the inlet opening completely. FDOT No. 1 Coarse Aggregate shall be used.
- An overflow weir can be constructed of 2" x 4" (5 x 10 cm) boards to lessen ponding from this practice. (See Plate 4.08l)
- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the curb, cleaned and replaced.

Block and gravel curb inlet sediment filter

- Two concrete blocks shall be placed on their sides abutting the curb at either side of the inlet opening.
- A 2" x 4" (5 x 10 cm) board shall be cut and placed through the outer holes of each spacer block to help keep the front blocks in place.
- Concrete blocks shall be placed on their sides across the front of the inlet and abutting the spacer blocks. (See Plate 4.08m)
- Wire mesh shall be placed over the outside vertical face (webbing) of the concrete blocks to prevent stone from being washed through the holes in the blocks. Hardware cloth with 1/2 inch (13 mm) openings shall be used.
- FDOT No. 1 Coarse Aggregate shall be piled against the wire to the top of the barrier.

- If the stone filter becomes clogged with sediment so that it no longer adequately performs its function, the stone must be pulled away from the block, cleaned and replaced.
- As an alternate, gravel filled burlap bags may be stacked tightly around the curb inlet. (See Plates 4.08n and 4.08o)

Curb and Gutter Sediment Barrier

- Place gravel filled burlap bags on gently sloping street segments according to the spacing chart. (See Plate 4.08p)
- Place two or more bags at each interval in a manner which provides maximum support.
- When stacking several bags high, leave a one bag gap to provide an overflow spillway. (See Plate 4.08q)
- Sediments must be removed after each rain event.

Maintenance

- The structure shall be inspected after each rain and repairs made as needed.
- Sediment shall be removed and the trap restored to its original dimensions when the sediment has accumulated to 1/2 of the design depth of the trap. Removed sediment shall be deposited in a suitable area and in such a manner that it will not erode.
- Structures shall be removed and the area stabilized when the remaining drainage area has been properly stabilized.

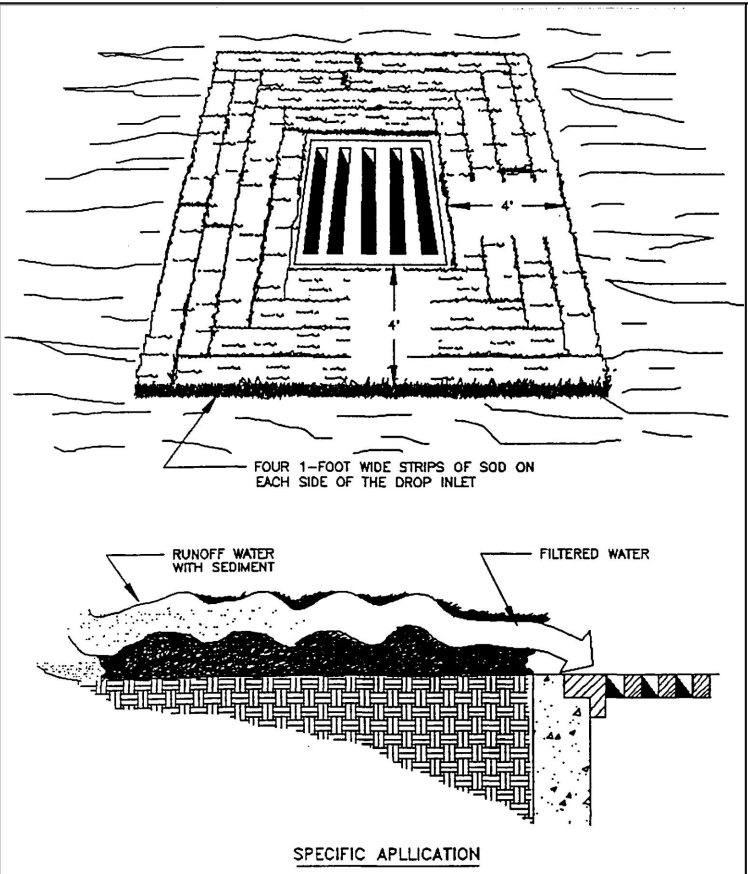


Plate 4.08j Sod Drop Inlet Sediment Filter
Source: Virginia DSWC

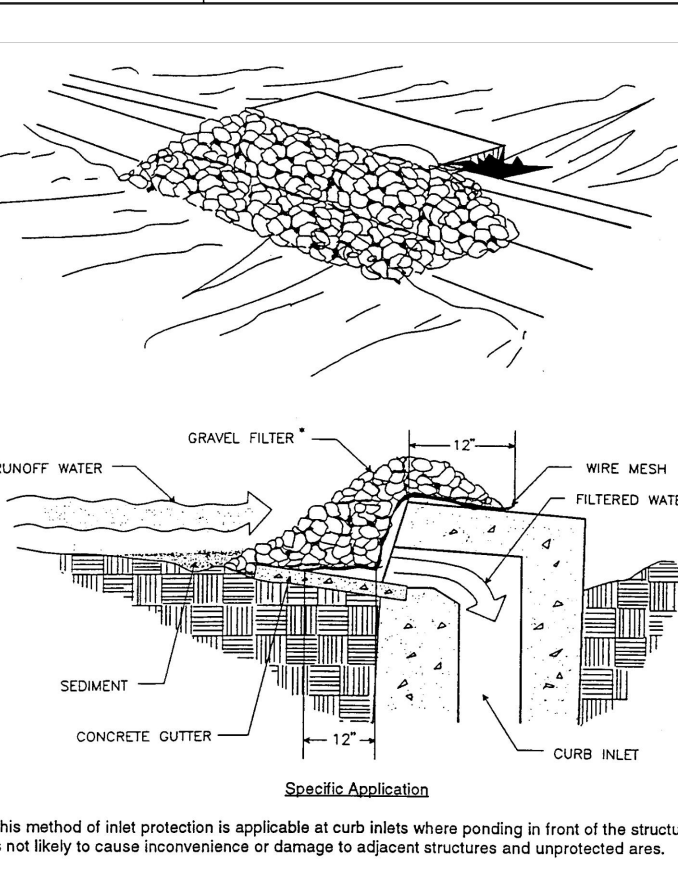


Plate 4.08k Gravel Curb Inlet Sediment Filter
Source: Virginia DSWC

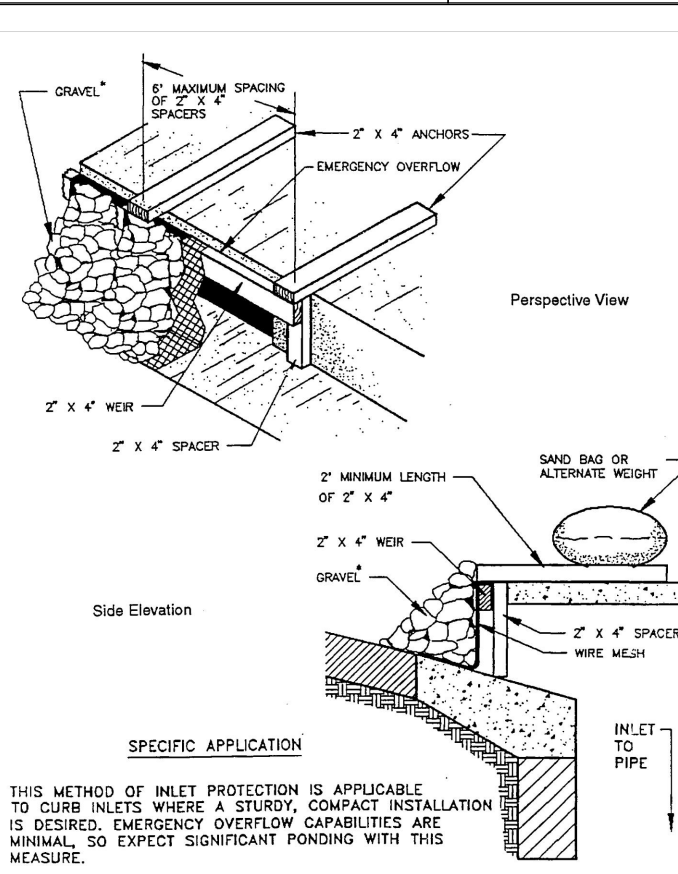


Plate 4.08L Gravel Curb Inlet Sediment Filter with Overflow Weir
Source: Michigan Standards and Specifications for Soil Erosion and Sediment Control

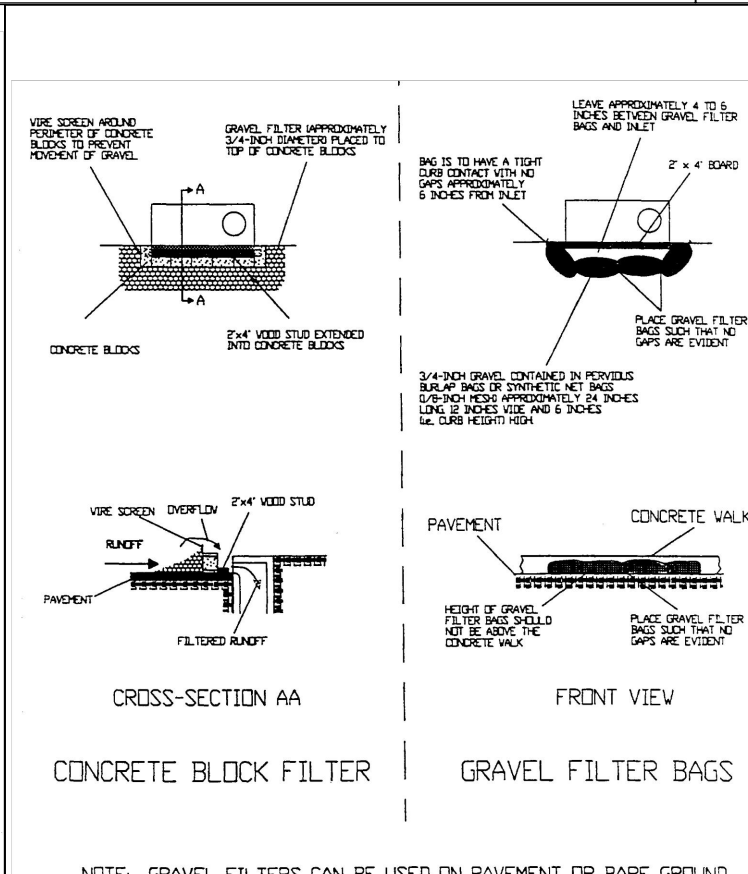


Plate 4.08m Curb Inlet Gravel Filters
Source: HydroDynamics, Inc.

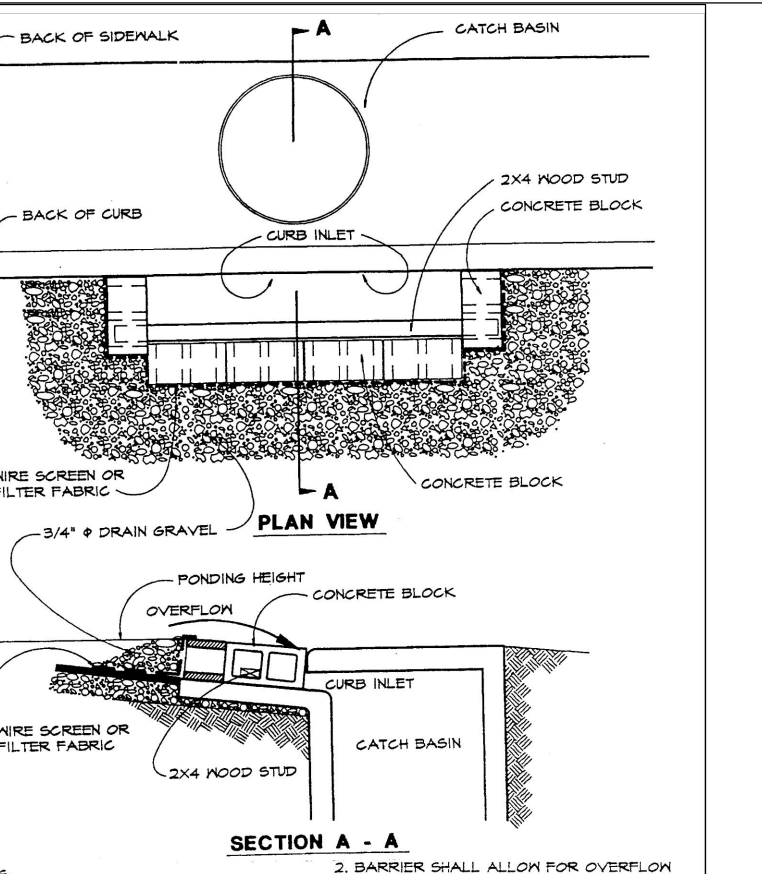


Plate 4.08n Block and Gravel Curb Inlet Sediment Barrier
Source: Erosion Draw

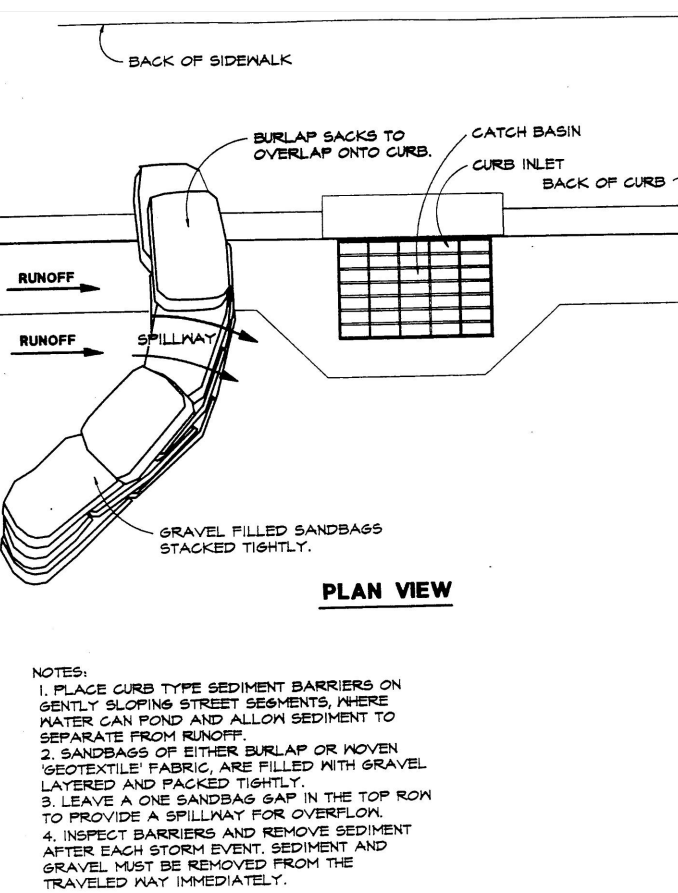


Plate 4.08p Curb Sediment Trap
Source: HydroDynamics Incorporated

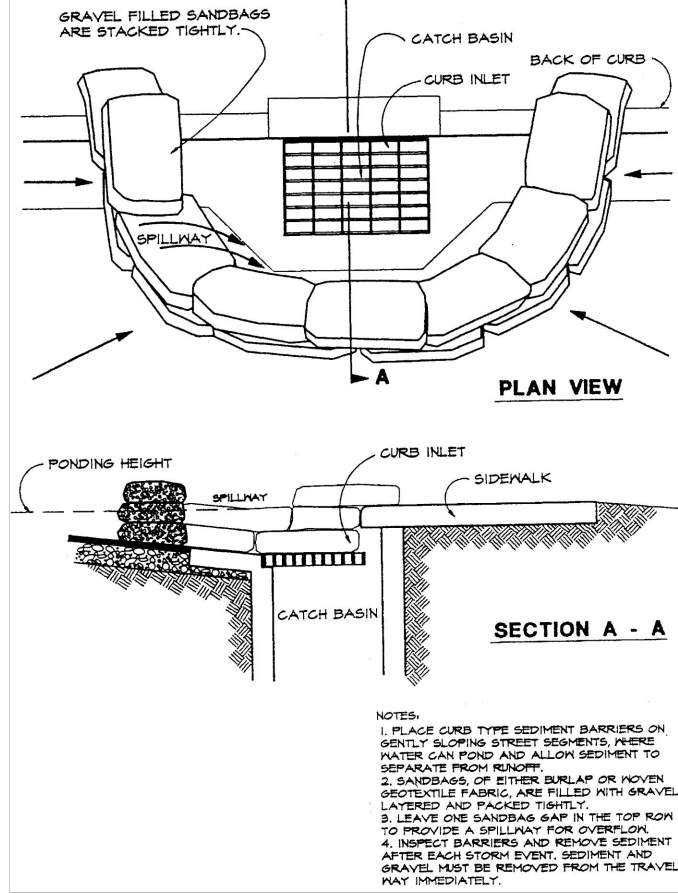


Plate 4.08q Spacing Between Gravel Bag Curb Filters
Source: HydroDynamics Incorporated

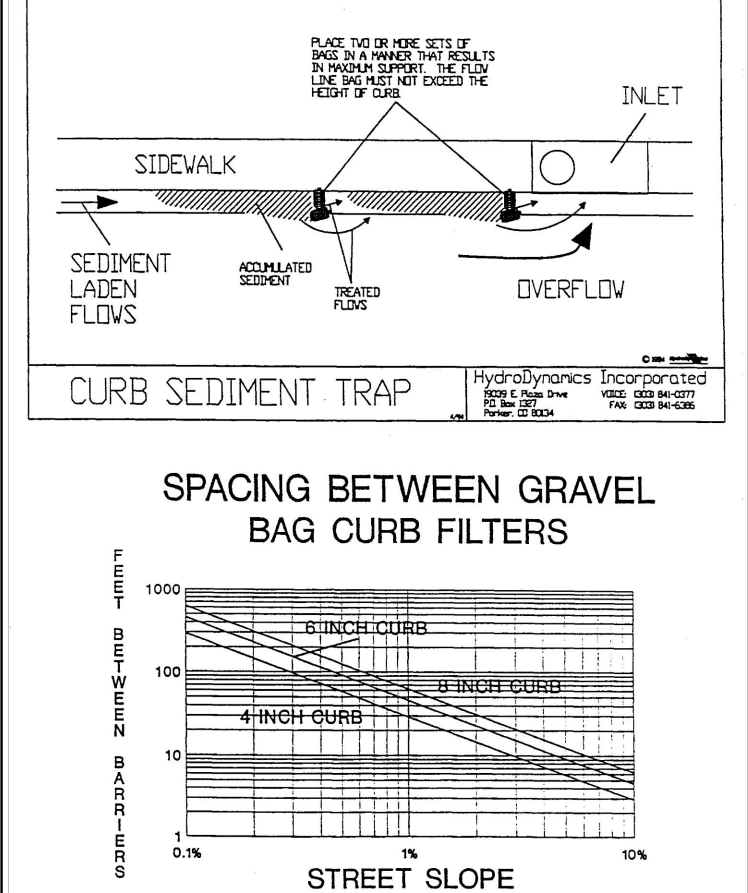


Plate 4.08r Spacing Between Gravel Bag Curb Filters
Source: HydroDynamics Incorporated



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PLANNING & ENGINEERING

ESPC DETAILS III
C06.6

TRUE WARM & WELCOME 2300

5.15 OUTLET PROTECTION (ES BMP 1.36)

Definition

Structurally lined aprons or other acceptable energy dissipating devices placed at the outlets of pipes (See Plate 5.15a) or paved channel sections (see Plate 5.15c). The most common types are riprap aprons or concrete aprons with energy dissipator blocks or walls.

Purpose

To prevent scour at stormwater outlets and to minimize the potential for downstream erosion by reducing the velocity of concentrated stormwater flows.

Conditions Where Practice Applies

Applicable to the outlets of all pipes and paved channel sections where the velocity of flow at design capacity of the outlet will exceed the permissible velocity of the receiving channel or area.

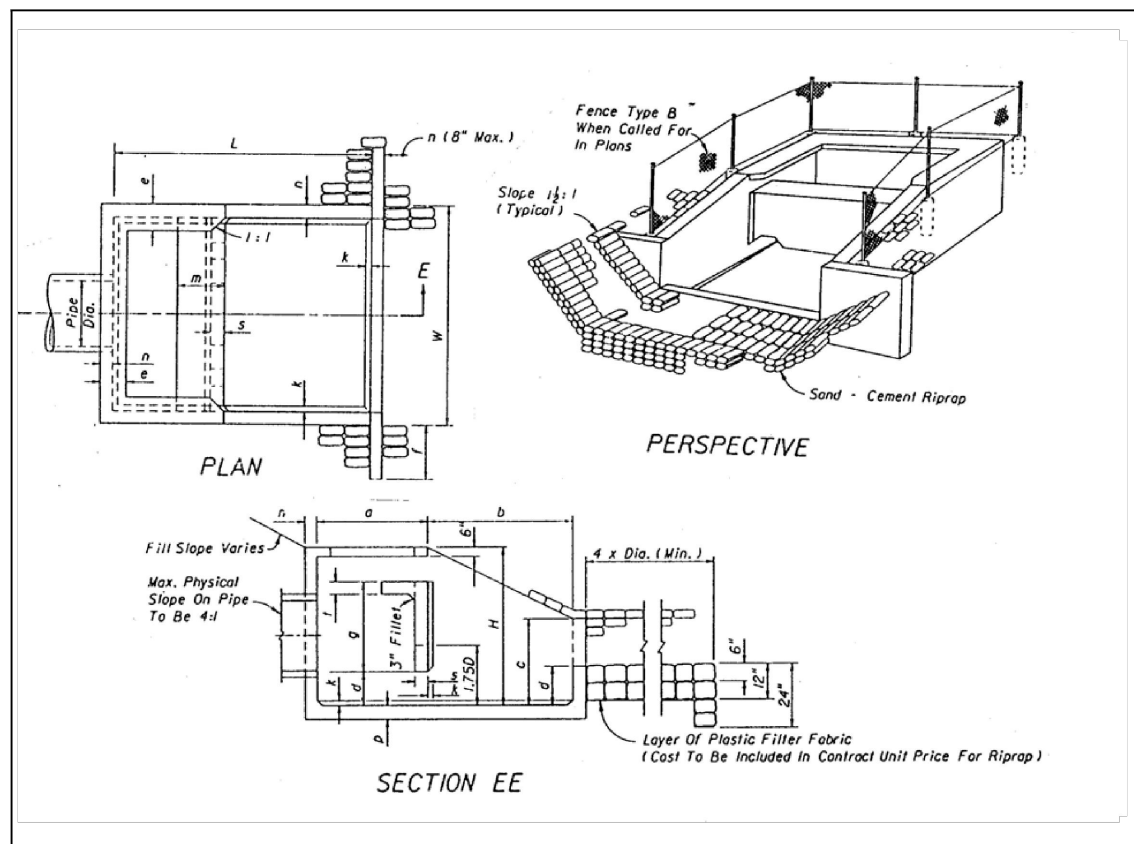


Plate 5.15a Energy Dissipator
Source: FDOT

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Construction Specifications

Subgrade preparation for all types of outlet protection shall follow guidelines presented in EARTHWORK SPECIFICATIONS - Section 5.00. Riprap outlet protection aprons shall be installed in accordance with RIPRAP - Section 5.16. Reno mattresses can also be used as per GABIONS AND RENO MATTRESSES - Section 5.19. Underlying geotextiles shall be anchor trenched in at least 6"-9" (15 - 25 cm) and backfilled (see Plate 5.15b).

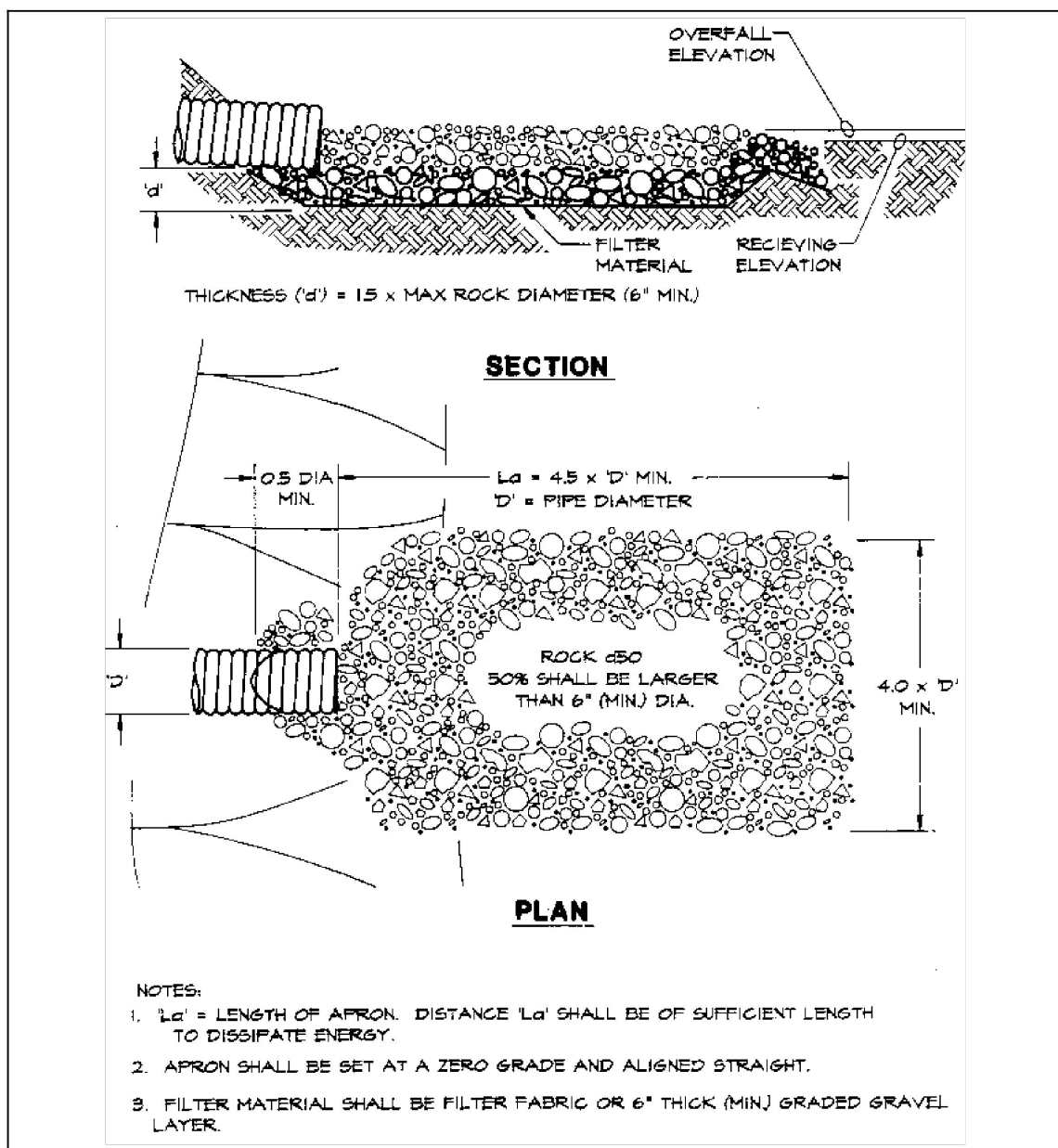


Plate 5.15b Energy Dissipator
Source: Erosion Draw

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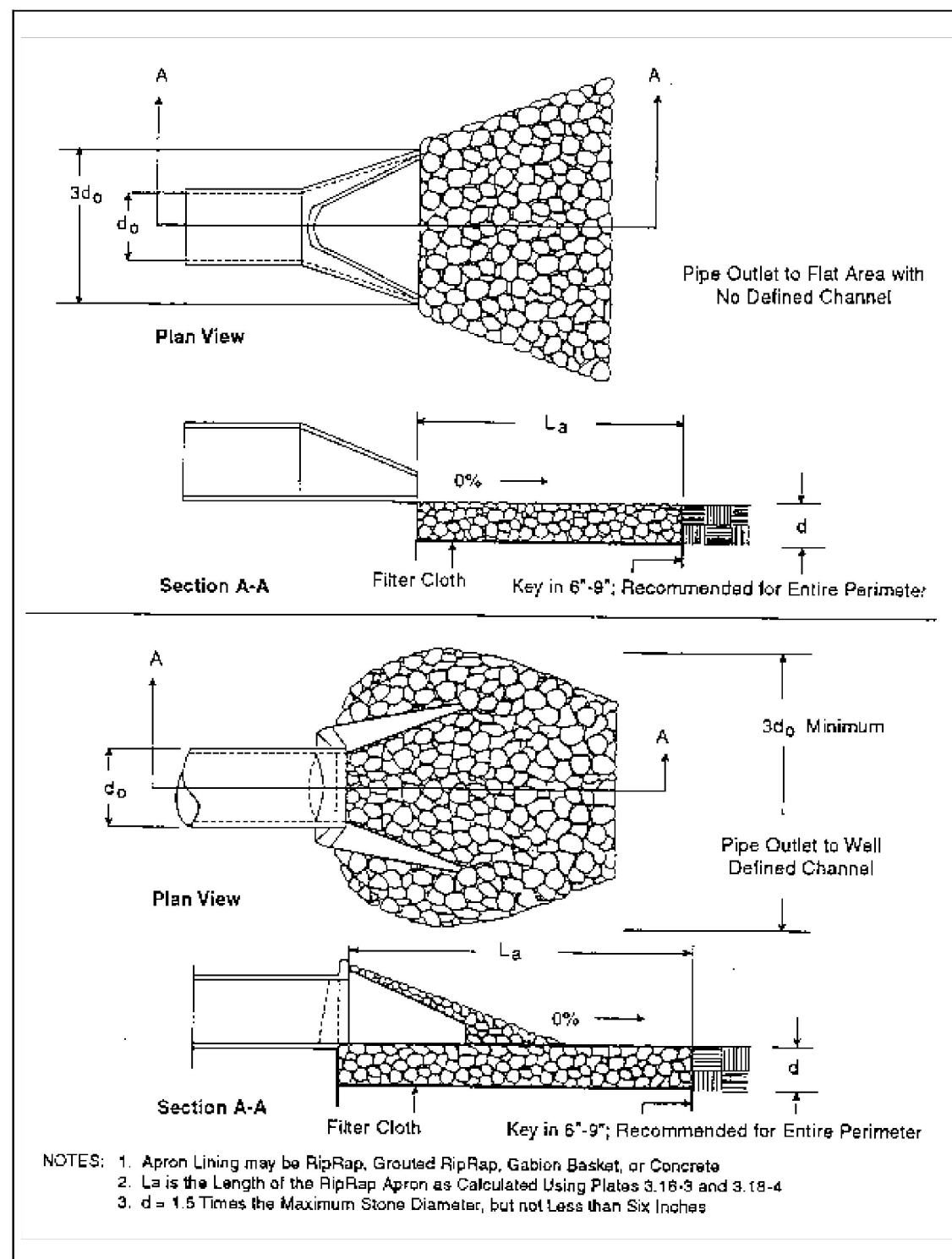


Plate 5.15c Pipe Outlet Conditions
Source: Virginia DSWC

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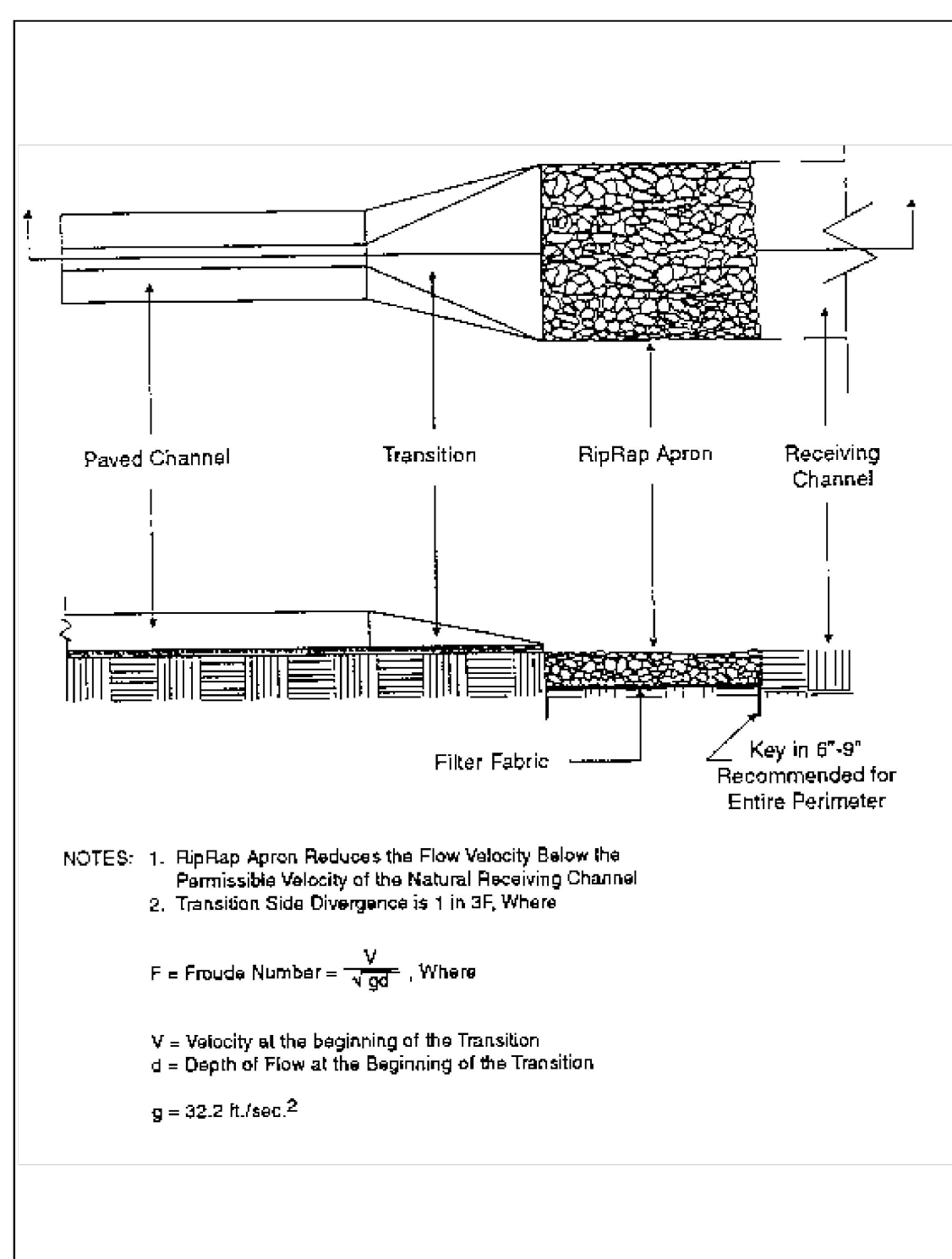


Plate 5.15d Paved Channel Outlet
Source: Virginia DSWC

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OUTLET PROTECTION

NTS



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6.67 SODDING (ES BMP 1.67)

Definition

Stabilizing fine-graded disturbed areas by establishing permanent grass stands with sod.

Purposes

- To establish permanent turf immediately.
- To prevent erosion and damage from sediment and runoff by stabilizing the soil surface.
- To reduce the production of dust and mud associated with bare soil surfaces.
- To stabilize drainageways where concentrated overland flow will occur.

Conditions Where Practice Applies

- Disturbed areas which require immediate vegetative covers, or where sodding is preferred to other means of grass establishment.
- Locations particularly suited to stabilization with sod are:
 - slopes and buffer strips.
 - waterways and swales, especially around drop inlets.
 - residential or commercial lawns where quick use or aesthetics are factors.

Specifications

Soil Preparation

- Prior to soil preparation, areas to be sodded shall be brought to final grade in accordance with the approval plan. These operations should leave as much topsoil as possible or replace the topsoil to a depth of four inches (10 cm).
- Soil tests should be made to determine the exact requirements for lime and fertilizer. Soil tests may be conducted by the State Laboratory at the University of Florida or a reputable commercial laboratory. Information on state soil tests is available from county agricultural extension agents.

When a soil test is not made the following soil amendments should be made:

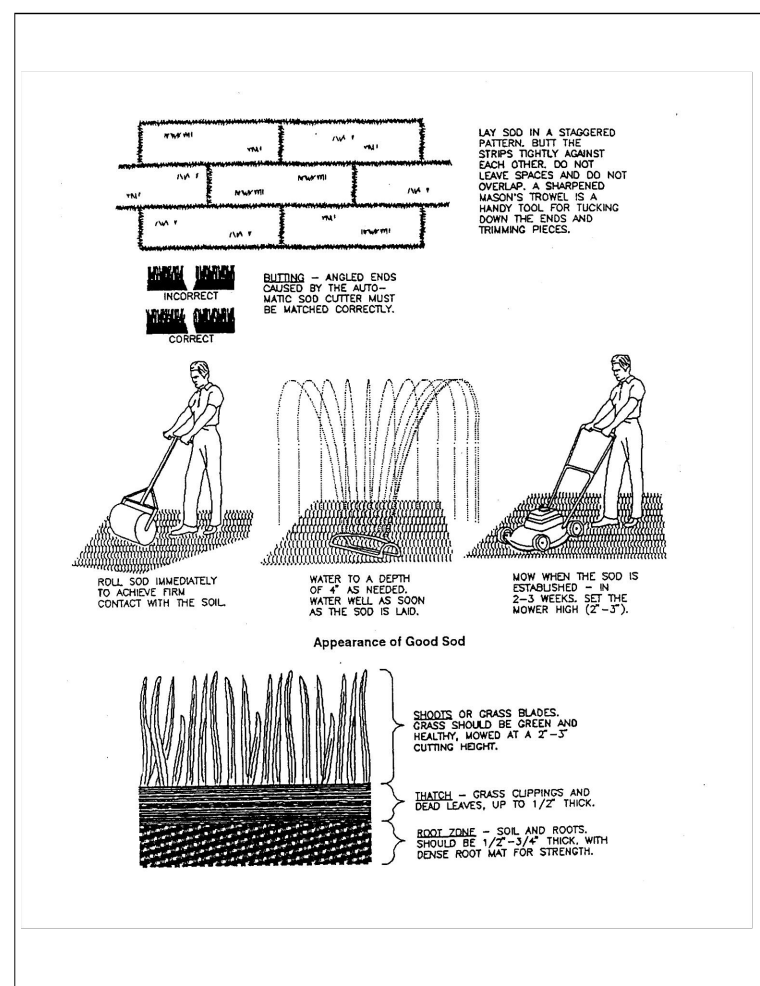


Plate 6.67a Sodding
Source: Virginia DSWC

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Pulverized agricultural limestone at 100 lbs./1000 ft² (2 tons/acre)(4.48 t/ha)

Fertilizer at 25 lbs./1000 ft² (1000 lbs./acre)(1.12 t/ha) of 10-10-10 in fall or 25 lbs./1000 ft² of 5-10-10 in spring. NOTE: Equivalent nutrients may be applied with other fertilizer formulations.

- These amendments shall be spread evenly over the area to be sodded, and incorporated into the top 3 - 6 inches (8 - 15 cm) of the soil by discing, harrowing or other acceptable means.
- Prior to laying sod, the soil surface shall be clear of trash, debris, roots, branches, stones and clods in excess of 2 inches (5 cm) in length or diameter. Sod shall not be applied to gravel or other non-soil surfaces.
- Any irregularities in the soil surface resulting from topsoil or other operations shall be filled or leveled in order to prevent the formation of depressions or water pockets.
- Areas to be topsoiled and topsoil used shall fulfill the requirements of TOPSOILING - Section 6.61 (ES BMP 1.61). No sod shall be spread on soil which has been treated with soil sterilants until enough time has elapsed to permit dissipation of toxic materials.

Sod Quality

- Sod should be free of weeds and undesirable coarse weedy grasses. If possible, Certified or Approved turfgrass sod should be used.
- Sod shall be machine cut at a uniform soil thickness of 3/4 inch (20 mm), plus or minus 1/4 inch (6 mm), at the time of cutting. This thickness shall exclude shoot growth and thatch.
- Pieces of sod shall be cut to the supplier's standard width and length, with a maximum allowable deviation in any dimension of 5%. Torn or uneven pads will not be acceptable.
- Standard size sections of sod shall be strong enough to support their own weight and retain their size and shape when suspended from a firm grasp on one end of the section.
- Sod shall be not cut or laid in excessively wet or dry weather.
- Sod shall be harvested, delivered, and installed within a period of 36 hours.

Sod Installation

- Solid Sodding (Plate 6.67a)**
 - Irrigate areas to be sodded with a minimum of 1/2-inch (13 mm) of water unless

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recent rains have provided equivalent moisture.

- The first row of sod shall be laid in a straight line with subsequent rows placed parallel to and butting tightly against each other. Lateral joints shall be staggered to promote more uniform growth and strength. Care shall be exercised to insure that sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would cause drying of the roots.

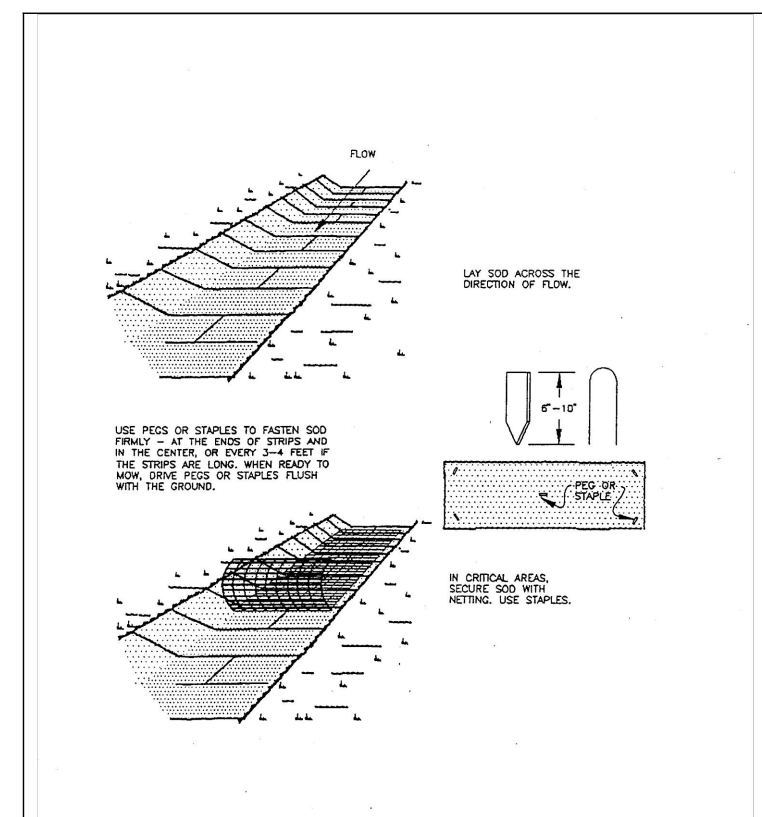


Plate 6.67b Sodding Swales and Waterways
Source: Virginia DSWC

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On slopes 3:1 or greater, or wherever erosion may be a problem, sod shall be laid with staggered joints and secured by pegging or other approved methods. Sod shall be installed with the length perpendicular to the slope (on the contour). Begin laying sod at the bottom of the slope and work uphill. On very steep slopes, the use of ladders will facilitate the work and prevent damage to the soil.

- Surface water cannot always be diverted from flowing over the face of the slope, but a capping strip of heavy jute or erosion netting, properly secured, along the crown of the slope will provide extra protection against lifting and undercutting of sod. This same technique can be used to fortify sod in water-carrying channels and other critical areas. Use wire staples to anchor heavy jute or erosion netting in channels.
- As sodding of clearly defined areas is completed, sod shall be rolled or tamped to provide firm contact between roots and soil.
- After rolling, sod shall be irrigated to a depth sufficient that the underside of the sod pad and the soil 4 inches (10 cm) below the sod is thoroughly wet.
- During the first week, in the absence of adequate rainfall, watering shall be performed as often as necessary to maintain moist soil to a depth of at least 4 inches (10 cm).
- The first mowing shall not be attempted until the sod is firmly rooted, usually after 2 - 3 weeks. Not more than 1/3 of the grass leaf should be removed at any one cutting.

B. Spot Sodding

- Spot sodding is the planting of plugs or blocks, a minimum of 4 inches (10 cm) in diameter or square, of sod at measured intervals. The plugs or blocks should be placed one foot (30 cm) apart.
- Sod spots within a row should be placed alternately and not directly opposite sod spots in adjacent rows.
- Fit the plugs or blocks tightly into prepared holes and tamp them firmly into place.
- Irrigate to a depth sufficient that the underside of the sod spot and the soil 4 inches (10 cm) below the sod is thoroughly wet.

C. Strip Sodding

- Areas to be strip sodded should be fertilized, limed, prepared and smoothed as in solid sodding.
- Lay the strips end to end in rows that are from 1 to 1-1/2 feet (30 to 45 cm) apart with the strips a minimum of 2 to 4 inches (5 to 10 cm) wide.

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Roll or tamp the strips thoroughly to provide firm contact between roots and soil.

- Irrigate to a depth sufficient that the underside of the strips and the soil 4 inches (10 cm) below the strips are wet.

D. Sodded Swales and Waterways (Plate 6.67b)

- Care should be taken to prepare the soil adequately in accordance with this specification. The sod type shall consist of plant materials able to withstand the designed velocity. (See STORMWATER CONVEYANCE CHANNELS - Section 6.35 (ES BMP 1.35)).
- Sod strips in swales and waterways shall be laid perpendicular to the direction of flow. Care should be taken to butt ends of strips tightly.
- After rolling or tamping, sod shall be pegged or stapled to resist washout during the establishment period. Chicken wire, jute or other netting may be pegged over the sod for extra protection in critical areas.
- All other specifications for this practice shall be adhered to when sodding a swale or waterway.

Maintenance of Established Sod

- After the first week, sod shall be watered as necessary to maintain adequate moisture in the root zone and prevent dormancy.
- Apply lime and fertilizer under a regular program based on soil tests and on the use and general appearance of the vegetative cover. In the absence of a soil test apply 1 - 2 tons/acre (45 - 90 lbs./1000 ft²) (2.24 to 4.48 t/ha) of finely ground agricultural limestone every three years. Apply 400 - 500 lbs./acre (9 - 18 lbs./1000 ft²) (450 - 560 kg/ha) of 10-10-10 fertilizer. To obtain better vegetative cover, topdress with 150 - 300 lbs./acre (6 - 12 lbs./1000 ft²) (170 - 340 kg/ha) of 16-4-4 fertilizer during the growing season, but at least six weeks before the end of the growing season. If Centipede or St. Augustine grass is used, do not apply more than 1 pound of actual nitrogen per 1000 ft² (20 - 40 lbs./acre)(22 - 44 kg/ha).
- Mow to control weeds, improve the appearance of the vegetative cover, and to reduce fire hazard, as necessary. In general, the coarser the leaf texture of the grass, the higher it should be cut. Continuous close mowing will result in loss of vigor and reduced stand. No more than 1/3 of the grass leaf should be removed in any mowing.

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SODDING

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ESPC DETAILS IV
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TRUE WARM & WELCOME 2300

Chapter 6 - Best Management Practices - Vegetation for Erosion Control
6.66 PERMANENT SEEDING (ES BMP 1.66)
Definition
The establishment of perennial vegetative cover on disturbed areas by planting seed.
Purposes
1. To reduce erosion and decrease sediment yield from disturbed areas.
2. To permanently stabilize disturbed areas in a manner that is economical, adaptable to site conditions, and allows selection of the most appropriate plant materials.
Conditions Where Practice Applies
1. Disturbed areas where permanent, long-lived vegetative cover is needed to stabilize the soil.
2. Rough-graded areas which will not be brought to final grade for a year or more.
Specifications
Selection of Plant Materials
1. Selection of plant materials is based on climate, topography, soils, land use, and planting season. To determine which plant materials are best adapted to a specific site, use Tables 1.66b and 1.66c of The Florida Development Manual which describe plant characteristics and list recommended varieties.
2. Appropriate seeding mixtures for various site conditions in Florida are given in Table 1.66a of The Florida Development Manual. These mixtures are designed for general use, and are known to perform well on the sites described. Adhere to these mixtures whenever feasible. Check Tables 1.66b and 1.66c for recommended varieties.
Seeded Requirements
Vegetation should not be established on slopes that are unsuitable due to inappropriate soil texture, poor internal structure or internal drainage, volume of overland flow, or excessive steepness, until measures have been taken to correct these problems.
To maintain a good stand of vegetation, the soil must meet certain minimum requirements as a growth medium. <u>The existing soil must have these criteria:</u>
1. Enough fine-grained material to maintain adequate moisture and nutrient supply.
2. Sufficient pore space to permit root penetration. A bulk density of 1.2 to 1.5
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Florida Erosion and Sediment Control Inspector's Manual
indicates that sufficient pore space is present. A fine granular or crumb-like structure is also favorable.
3. Sufficient depth of soil to provide an adequate root zone. The depth to rock or impermeable layers such as hardpans shall be 12 inches (30 cm) or more, except on slopes steeper than 2:1 where the addition of soil is not feasible.
4. A favorable pH range for plant growth. If the soil is so acid that a pH range of 6.0 - 7.0 cannot be attained by addition of pH-modifying materials, then the soil is considered an unsuitable environment for plant roots.
5. Freedom from toxic amounts of materials harmful to plant growth.
6. Freedom from excessive quantities of roots, branches, large stones, large clods of earth, or trash of any kind. Clods and stones may be left on slopes steeper than 3:1 if they are to be hydroseeded.
If any of the above criteria cannot be met, i.e., if the existing soil is too coarse, dense, shallow, acid, or contaminated to foster vegetation, then topsoil should be applied in accordance with TOPSOILING - Section 6.61 (ES BMP 1.61).
Necessary mechanical erosion and sediment control practices will be installed prior to seeding . Grading will be carried out according to the approved plan.
Surfaces will be roughened in accordance with SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).
Soil Conditions
In order to modify the texture, structure, or drainage characteristics of a soil, the following materials may be added to the soil:
1. Peat shall be sphagnum moss peat, hynum moss peat, reed-sedge peat or peat humus, from fresh-water sources. Peat shall be shredded and conditioned in storage piles for at least six months after excavation.
2. Sand shall be clean and free of toxic materials.
3. Vermiculite shall be horizontal grade and free of toxic substances.
4. Rotted manure shall be stable or cattle manure not containing undue amounts of straw or other bedding materials or toxic chemicals.
5. Thoroughly rotted sawdust shall be 6 lbs. of nitrogen added to each cubic yard (3.5 kg/m ³) and shall be free of stones, sticks, and toxic substances.
6. Where local ordinances permit, treated sewage sludge may be used in accordance with local, state, and federal regulations.
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Florida Erosion and Sediment Control Inspector's Manual
separately. Rates of wood fiber should be at least 2000 lbs. per acre (2.24 t/ha). Surface roughening is particularly important when hydroseeding, as a roughened slope will provide some natural coverage of lime, fertilizer, and seed.
5. Legume inoculants should be used by the date indicated on the container. When dry seeding use four times the manufacturer's recommended rate and use ten times the recommended rate of inoculant when hydroseeding.
Mulching
All permanent seeding must be mulched immediately upon completion of seed application. Refer to MULCHING - Section 6.75 (ES BMP 1.75).
Maintenance of New Seedlings
Irrigation: New seedlings should be supplied with adequate moisture. Supply water as needed, especially late in the season, in abnormally hot or dry weather, or on adverse sites. Water application rates should be controlled to prevent runoff. Inadequate amounts of water may be more harmful than no water.
Re-seeding: Inspect seeded areas for failure and make necessary repairs and reseedings within the same season, if possible.
1. If vegetative cover is inadequate to prevent rill erosion, overseed and fertilize in accordance with soil test results.
2. If a stand has less than 40% cover, re-evaluate choice of plant materials and quantities of lime and fertilizer. Re-establish the stand following seedbed preparation and seeding recommendations, omitting lime and fertilizer in the absence of soil test results. NOTE: If vegetation has failed to grow, soil must be tested to determine if acidity or nutrient imbalances are responsible.
Fertilization: Seedlings should be fertilized one year after planting to insure proper stand density.
1. To established all-grass stands, apply 500 lbs./acre of 10-20-10 (12 lbs./1000 ft ³)(560 kgha) between August 15 and November 15. (The first fall following seeding.)
2. To legume-and-grass stands or pure legume stands, apply 500 lbs./acre of 0-20-20 (12 lbs./1000 ft ³)(560 kgha) in early May or between August 15-October 15.
GENERALLY, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL SOIL COVER HAS BEEN MAINTAINED FOR ONE FULL YEAR FROM PLANTING. DISTURBED AREAS WHICH ARE TO BE STABILIZED WITH PERMANENT VEGETATION MUST BE SEEDED OR PLANTED WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED UNLESS TEMPORARY STABILIZATION IS APPLIED.
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Chapter 6 - Best Management Practices - Vegetation for Erosion Control
Lime and Fertilizer
Lime and fertilizer needs should be determined by soil tests. Soil tests may be performed by the Cooperative Extension Service Soil Testing Laboratory at the U.F., or by a reputable commercial laboratory. Information concerning the State Soil Testing Laboratory is available from county extension agents. Under unusual conditions where it is not possible to obtain a soil test, the following soil amendments will be applied:
LIME: 2 tons/acre finely ground agricultural or dolomitic limestone (90 lbs./1000 ft ³)(4.48 t/ha)
FERTILIZER: Mixed grasses and legumes: 1000 lbs./acre 5-20-10 (25 lbs./1000 ft ³)(1.12 t/ha)
Legume stands only: 1000 lbs./acre 5-20-10 (25 lbs./1000 ft ³)(1.12 t/ha)
Grass stands only: 1000 lbs./acre 5-20-10 (1.12 t/ha) and 300 lbs./acre 0-38-0-0 in spring (7 lbs./1000 ft ³)(336 kgha)
1000 lbs./acre 10-20-10 (1.12 t/ha) and 300 lbs. of 38-0-0 in fall (7 lbs./1000 ft ³)(336 kgha)
Other fertilizer formulations may be used, provided they can supply the same amounts and proportions of plant nutrients.
Incorporation - Lime and fertilizer shall be incorporated into the top 4 - 6 inches (10 - 15 cm) of the soil by discing or other means. When applying lime and fertilizer with a hydroseeder, apply to a rough, loose surface.
Seeding
1. Certified seed should be used for all permanent seeding whenever possible.
2. Legume seed - Legume seed should be inoculated with the inoculant appropriate to the species. Seed of lespedezas, crown vetch, and clovers should be scarified to promote uniform germination.
3. Apply seed uniformly with a cyclone seeder, drill, cultipacker seeder, or hydroseeder on a firm, friable seedbed. Maximum seeding depth should be 1/4 inch.
4. Hydroseeding - To avoid seed damage, it is recommended that if a machinery breakdown of 30 minutes to 2 hours occurs, 50% more seed be added to the tank, based on the proportion of the slurry remaining in the tank. Beyond 2 hours, a full rate of new seed may be necessary.
Often hydroseeding contractors prefer not to apply lime in their rigs as it is abrasive. In inaccessible areas, lime may have to be applied in pelletized or liquid form,
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REVISIONS:
C1 1ST COUNTY COMMENTS 04/05/2021
C2 2ND COUNTY COMMENTS 06/04/2021

ISSUE DATE:
ALT. STANDARDS 12/17/2020
PRELIMINARY SITE PLAN 01/12/2021
COUNTY COMMENTS 04/05/2021
ISSUE FOR BID 06/04/2021

DRAWN BY: INGENIUM
PANDA PROJECT #: D8135
PANDA STORE #:
ARCH PROJECT #:



ESPC DETAILS V
C06.8

TRUE WARM & WELCOME 2300

Chapter 6 - Best Management Practices - Vegetation for Erosion Control
6.75 MULCHING (ES BMP 1.75)
Definition
Application of plant residues or other suitable materials to the soil surface.
Purposes
1. To prevent erosion by protecting the soil surface from raindrop impact and reducing the velocity of overland flow.
2. To foster the growth of vegetation by increasing available moisture and providing insulation against extreme heat and cold.
Conditions Where Practice Applies
1. Areas which have been permanently seeded should be mulched immediately following seeding.
2. Areas which cannot be seeded because of the season should be mulched to provide temporary protection to the soil surface. An organic mulch (not wood fiber alone) shall be used, and the area then seeded as soon as feasible in spring.
3. Mulch shall be used together with plantings of trees, shrubs, or certain ground covers which do not provide adequate soil stabilization by themselves.
4. Mulch shall be used in conjunction with temporary seeding operations specified in TEMPORARY SEEDING - Section 6.65 (ES BMP 1.65).
5. Mulches used in areas of concentrated flows or frequent inundation shall be properly anchored to prevent them from floating away.
Specifications
Types of Mulches
1. Organic Mulches
Organic mulches may be used in any area where mulch is required, subject to the restrictions noted in Table 6.75a. Select mulch material based on site requirements, availability of materials, and availability of labor and equipment. Table 6.75a lists the most commonly used organic mulches. Other materials, such as peanut hulls and cotton burs, may be used.
Mulch materials shall be spread uniformly, by hand or machine. When spreading straw by hand, divide the area to be mulched into approximately 1000 sq. ft. sections and place 70 - 90 lbs. (1-1/2 to 2 bales)(30 - 40 kg) of straw in each section
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to facilitate uniform distribution.

2. **Nets, Mats, and Blankets**

Nets may be used alone on level areas, on slopes no steeper than 3:1, and in waterways as specified in STORMWATER CONVEYANCE CHANNELS - Section 5.35 (ES BMP 1.35). When mulching is done in late fall or during June, July, or August, or where soil is highly erodible, net should only be used in conjunction with an organic mulch such as straw. When net and organic mulch are used together, the net should be installed over the mulch except when the mulch is wood fiber. Wood fiber may be sprayed on top of the installed net. Excavator blades are considered protective mulches and may be used alone on erodible soils and during all times of year.

Table 6.75a - Mulch Application

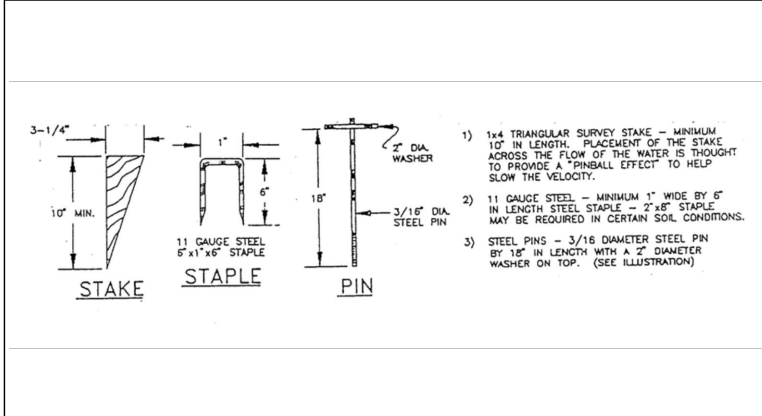
Mulches	Rate per acre	Rate per 1000 sq.ft.	Notes
Straw	1.5 - 2 tons	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Wood Fibers	0.5 - 1.0 tons	25 - 50 lbs.	Fibers 1.5" min. length. Do not use alone in winter or during hot, dry weather. Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4 - 6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Shredded Bark Chips	50 - 70 cu. yds.	1 - 2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

Table 6.75a Organic Mulch Materials and Application Rates
Source: Virginia SWCC

Jute net shall be heavy, uniform cloth woven of single jute yarn, which if 36 to 48 inches (90 to 120 cm) wide shall weigh an average of 1.2 pounds per linear yard (0.6 kg/m). Other products designed to control erosion shall conform to manufacturer's specification and should be applied in accordance with manufacturer's instructions provided those instructions are at least as stringent as

Chapter 6 - Best Management Practices - Vegetation for Erosion Control
this specification. Examples of these products are Erosionet, Holdgro, Weedchek, and Curlex. (Use of trade names does not constitute an endorsement of products by FDEP). In no case shall these products cover less than 30% of the soil surface
3. Chemical Mulches
Chemical mulches may be used alone only in the following situations:
a. Where no other mulching material is available.
b. In conjunction with temporary seeding during the times when mulch is not required for that practice.
c. From May 1 to June 15 and September 15 to October 15, provided that they are used on areas with slopes no steeper than 4:1, which have been roughened in accordance with SURFACE ROUGHENING - Section 6.60 (ES BMP 1.60).
Prior to Installation:
1. Shape and grade as require the waterway, channel, slope, or other area to be protected.
2. Remove all rocks, clods, or debris larger than 2 inches in diameter that will prevent contact between the net and the soil surface.
3. Lime and fertilizer should be incorporated and surface roughening accomplished as needed. Seed should be applied prior to mulching except in the following cases:
a. Where seed is to be applied as part of a hydroseeder slurry containing wood fiber mulch.
b. Where seed is to be applied following a straw mulch spread during winter months.
c. Where a hydroseeder slurry is applied over straw.
Mulch Anchoring: Straw mulch must be anchored immediately after spreading to prevent windblow. Other organic mulches listed in Table 6.75a do not require anchoring. The following methods of anchoring straw may be used:
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1. Mulch anchoring tool: This is a tractor-drawn implement designed to punch mulch into the soil surface. This method provides maximum erosion control with straw. It is limited to use on slopes no steeper than 3:1, where equipment can operate safely. Machinery shall be operated on the contour.
2. Liquid mulch binders: Application of liquid mulch binders and tackifiers should be heaviest at edges of areas and at crests of ridges and banks, to prevent windblow. The remainder of the area should have binder applied uniformly. Binders may be applied after mulch is spread or may be sprayed into the mulch as it is being blown onto the soil. Applying straw and binder together is the most effective method.
Chemical binders such as Petrosel, Terratack, Road Oyl, and Aerospray may be used as recommended by the manufacturer to anchor mulch. These are expensive and therefore usually used in small areas or in residential areas where asphalt may be a problem. (Use of trade names does not constitute an endorsement by FDEP).
3. Mulch nettings: Lightweight plastic, cotton, or paper nets may be stapled over the mulch. Netting shall be secured by stakes, staples, or pins according to manufacturer's recommendations. See Plate 6.75g for details.
4. Peg and Twine: Because it is labor intensive, this method is feasible only in small areas where other methods cannot be used. Drive 8 - 10 inch (20 - 25 cm) wooden pegs to within 3 inches (8 cm) of the soil surface, every 4 feet (1.2 m) in all directions. Stakes may be driven before or after straw is spread. Secure mulch by stretching twine between pegs in a criss-cross-within-a-square pattern. Turn twine 2 or more times around each peg.
Laying Nets, Mats, and Blankets
Nets, mats, and blankets should be installed according to the manufacturers' instructions, provided that they are at least as stringent as stringent as the general recommendations below.
1. Start laying net from top of channel or top of slope and unroll downgrade.
2. Allow to lay loosely on soil--do not stretch.
3. To secure net: Upslope ends of net should be buried in a slot or trench no less than 6 inches (15 cm) deep. Tamp earth firmly over net. Staple the net every 12 inches (30 cm) across the top end. Edges of net shall be stapled every 3 feet (90 cm). Where 2 strips of net are laid side by side, the adjacent edges shall be overlapped 3 inches (8 cm) and stapled together. Staples shall be placed down the center of net strips at 3-foot (90 cm) intervals. DO NOT STRETCH net when applying staples.
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4. Joining strips: Insert new roll of net in trench, as with upslope ends of net. Overlap the end of the previous roll 18 inches (45 cm), turn under 6 inches (15 cm), and staple across end of roll just below anchor slot and at the end of the turned-under net every 12 inches (30 cm).
5. At bottom of slopes: Lead net out onto a level area before anchoring. Turn ends under 6 inches (15 cm), and staple across end every 12 inches (30 cm).
6. Check slots: On highly erodible soils and on slopes steeper than 4:1, erosion check slots should be made every 15 feet (4.5 m). Insert a fold of net into a 6-inch (15 cm) trench and tamp firmly. Staple at 12-inch (30 cm) intervals across the downstream portion of the net.
7. After installation, stapling, and seeding, net should be rolled to insure firm contact between net and soil.
Maintenance
All mulches should be inspected periodically, in particular after rainstorms, to check for rill erosion. Where erosion is observed additional mulch should be applied. Net should be inspected after rainstorms for dislocation or failure. If washouts or breakage occur, re-install net as necessary after repairing damage to the slope. Inspectors should take place up until grasses are firmly established. Where mulch is used in conjunction with ornamental plantings, inspect periodically throughout the year to determine if mulch is maintaining coverage of the soil surface. Repair as needed.

Plate 6.75g Stakes, Staples, and Pins for Installation Soil Stabilization Matting Source: Product Literature from Greenstreak, Inc.
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