

GENERAL NOTES:

- A. CONTRACTOR SHALL BE RESPONSIBLE FOR RAZING AND REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- B. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- C. THE GENERAL CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR AND SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- D. WARRANTY/DISCLAIMER: THE DESIGNS REPRESENTED IN THESE PLANS ARE IN ACCORDANCE WITH ESTABLISHED PRACTICES OF CIVIL ENGINEERING FOR THE DESIGN FUNCTIONS AND USES INTENDED BY THE OWNER AT THIS TIME. HOWEVER, NEITHER THE ENGINEER NOR ITS PERSONNEL CAN OR DO WARRANT THESE DESIGNS OR PLANS AS CONSTRUCTED EXCEPT IN THE SPECIFIC CASES WHERE THE ENGINEER INSPECTS AND CONTROLS THE PHYSICAL CONSTRUCTION ON A CONTEMPORARY BASIS AT THE SITE.
- E. SAFETY NOTICE TO CONTRACTOR: IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, THE CONTRACTOR SHALL 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 NOT BE LIMITED TO NORMAL WORKING HOURS. ANY CONSTRUCTION OBSERVATION BY THE ENGINEER 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.
- F. ALL CONSTRUCTION WITHIN STATE HIGHWAY DEPARTMENT RIGHT-OF-WAY SHALL BE COORDINATED WITH THE HIGHWAY DEPARTMENT RESIDENT MAINTENANCE ENGINEER.
- G. ALL SITE WORK FOR THIS PROJECT SHALL MEET OR EXCEED THE SPECIFICATIONS OF THE RELEVANT UTILITY COMPANY OR REGULATORY AUTHORITY, AND THE SPECIFICATIONS FOR THE CONSTRUCTION OF THE EXISTING IMPROVEMENTS WHICH ARE BEING ALTERED OR REPLACED. CONTRACTOR SHALL CONTACT THE ENGINEER FOR SPECIFICATION SECTIONS FOR ITEMS SUCH AS LANDSCAPING AND IRRIGATION THAT ARE AFFECTED BY THE WORK BUT NOT COMPLETELY DETAILED OR SPECIFIED ON THESE PLANS.
- H. CONSTRUCTION AND INSTALLATION OF 3,184 SF BUILDING, ALL UTILITY ENTRANCES AND (1) UNDERGROUND TANKS SHALL BE IN ACCORDANCE WITH ASSOCIATED PLANS.
- I. THE GENERAL CONTRACTOR TO FIELD COORDINATE THE CANOPY SIGN LOCATION WITH MURPHY'S CONSTRUCTION SUPERVISOR.
- J. STAGE II VAPOR RECOVERY SYSTEM IS NOT REQUIRED.

NOTES TO CONTRACTOR

- A. THE CONTRACTOR SHALL PROVIDE THE ENGINEER OF RECORD WITH THE DATE WHEN CONSTRUCTION IS TO BEGIN.
- B. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND LAYOUT.
- C. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING THE ENGINEER OF RECORD OF ANY DEVIATIONS DURING CONSTRUCTION AND SHALL REPORT THEM IMMEDIATELY.
- D. CONTRACTOR IS REQUIRED TO KEEP REDLINE AS-BUILTS AND TO PROVIDE THOSE TO MURPHY UPON COMPLETION.
- E. CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING THE AS-BUILT AND CERTIFICATE OF OCCUPANCY (C.O.) REQUIREMENTS FOR THE ISSUING AUTHORITY.
- F. IF AN ELEVATION CERTIFICATE OR AS-BUILT SURVEY IS REQUIRED BY THE ISSUING AUTHORITY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SCHEDULING OF THE SURVEY WITH THE CIVIL CONSULTANT PRIOR TO DEADLINE FOR OBTAINING THE C.O. AND AFTER NECESSARY COMPLETED WORK TO BE SHOWN ON SURVEY.

WETLANDS NOTE:

ANY DEVELOPMENT, EXCAVATION, CONSTRUCTION, OR FILLING IN A U.S. ARMY CORPS OF ENGINEERS DESIGNATED WETLAND IS SUBJECT TO LOCAL, STATE AND FEDERAL APPROVALS. THE CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS AND/OR RESTRICTIONS AND ANY VIOLATION WILL BE SUBJECT TO FEDERAL PENALTY. THE CONTRACTOR SHALL HOLD THE OWNER/DEVELOPER, THE ENGINEER AND THE LOCAL GOVERNING AGENCIES HARMLESS AGAINST SUCH VIOLATION.

FLOOD CERTIFICATION:

THIS PROPERTY IS LOCATED WITHIN THE ESTABLISHED 100-YEAR FLOOD PLAIN, AS SHOWN BY THE FEDERAL MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP FOR THE CITY OF TALLAHASSEE, LEON COUNTY, FLORIDA COMMUNITY PANEL NUMBER 12073C0292F, DATED 8/18/2009.

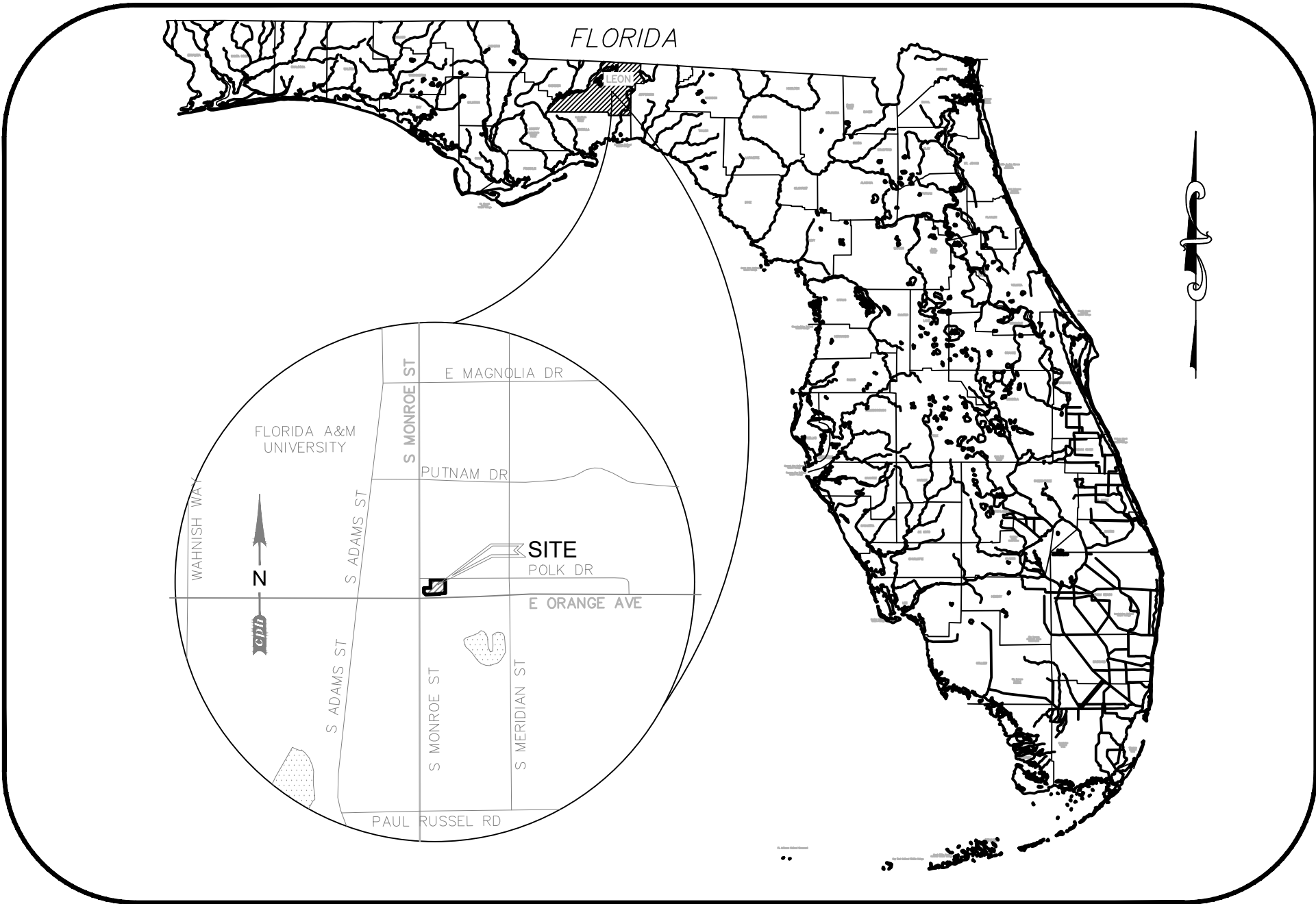
NOTICE TO BIDDERS:

ALL QUESTIONS REGARDING THE PREPARATION OF THE GENERAL CONTRACTOR'S BID SHALL BE DIRECTED THROUGH MURPHY'S CONSTRUCTION WEBSITE (HTTPS://MURPHYUSA.PROJECTMATES.COM/) INCLUDING Q&A, RFI'S, BID SUBMISSION, CHANGE ORDER REQUESTS, ETC. ONCE AWARDED THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PROJECT MANAGER. SUBCONTRACTORS MUST DIRECT THEIR QUESTIONS THROUGH THE GENERAL CONTRACTOR, THE CONSULTING ARCHITECT AND/OR THE CONSULTING ENGINEER SHALL NOT BE CONTACTED DIRECTLY WITHOUT PRIOR AUTHORIZATION FROM THE OWNER/DEVELOPER.

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Check positive response codes before you dig!

SITE DEVELOPMENT PLANS FOR
MURPHY USA
TALLAHASSEE, FLORIDA
2785 S. MONROE STREET, 32301
SECTION 12-TOWNSHIP 1 SOUTH-RANGE 1 WEST



PLAN INDEX:

CPH -- CIVIL ENGINEERING CONSULTANT

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- * S-1 STRUCTURAL GENERAL NOTES
- * S-2 RAMP FOUNDATION PLAN & DETAILS
- * S-3 DUMPSTER FOUNDATION PLAN & DETAILS

Vicinity Map

NOT TO SCALE

Legal Description: (PER COMMITMENT FOR TITLE INSURANCE BY CHICAGO TITLE INSURANCE COMPANY, ORDER NO. 106776367, EFFECTIVE DATE AUGUST 10, 2022 AT 5:00 PM)

PARCEL 1:
THE EAST HALF OF LOTS 1 AND 2, BLOCK D, CAPITAL VIEW ACRES, ACCORDING TO MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 60, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

AND

ALL OF LOTS 3 AND 4, BLOCK D, LYING WEST AND NORTH OF DITCH IN CAPITAL VIEW ACRES, ACCORDING TO THE MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 60, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA, LESS AND EXCEPT THE ROAD RIGHTS OF WAY FOR SOUTH MONROE STREET AND EAST ORANGE AVENUE, AND MORE PARTICULARLY DESCRIBED IN THAT FINAL ORDER OF TAKING, RECORDED IN OFFICIAL RECORDS BOOK 827, PAGE 657, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

PARCEL 2:
COMMENCE AT A CONCRETE MONUMENT MARKING THE NORTHEAST CORNER OF LOT 1, BLOCK D OF CAPITAL VIEW ACRES, A SUBDIVISION AS PER MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 60, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA AND RUN SOUTH 00 DEGREES 14 MINUTES 28 SECONDS EAST ALONG THE EAST BOUNDARY OF SAID LOT 1, AND THE EAST BOUNDARY OF LOTS 2 AND 3 OF SAID BLOCK D, A DISTANCE OF 131.09 FEET TO A CONCRETE MONUMENT FOR THE POINT OF BEGINNING; FROM SAID POINT OF BEGINNING RUN THENCE SOUTH 52 DEGREES 03 MINUTES 32 SECONDS WEST ALONG THE SOUTHEASTERLY BOUNDARIES OF SAID LOTS 3 AND 4 OF SAID BLOCK D A DISTANCE OF 75.95 FEET TO A CONCRETE MONUMENT; THENCE NORTH 86 DEGREES 39 MINUTES 14 SECONDS EAST ALONG THE NORTHERLY RIGHT OF WAY BOUNDARY OF ORANGE AVENUE, 60.18 FEET TO A CONCRETE MONUMENT; THENCE NORTH 00 DEGREES 14 MINUTES 28 SECONDS WEST 43.19 FEET TO THE POINT OF BEGINNING, SAID PROPERTY BEING THE WEST 60.18 FEET OF LOT 6, BLOCK "D", CAPITAL VIEW ACRES, AS PER MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 60, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA, LESS AND EXCEPT THE RIGHT OF WAY OF ORANGE AVENUE.

PARCEL 3:
ALL OF LOT 5, BLOCK D, AND ALL OF LOT 6, BLOCK D, LESS AND EXCEPT THE EAST 116 FEET OF LOT 6, BLOCK D, AND LESS AND EXCEPT THE WEST 60.18 FEET OF LOT 6, BLOCK D, CAPITAL VIEW ACRES, AS PER MAP OR PLAT THEREOF RECORDED IN PLAT BOOK 2, PAGE 60, OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA, LESS AND EXCEPT THE RIGHT OF WAY OF ORANGE AVENUE.

LESS AND EXCEPT FROM PARCEL 1 RIGHT-OF-WAY TAKE RECORDED IN OFFICIAL RECORDS BOOK 1824, PAGE 448 OF THE PUBLIC RECORDS OF LEON COUNTY, FLORIDA.

RESOURCE LIST:

PLANNING AND ZONING
CITY OF TALLAHASSEE
LAND USE & ENVIRONMENTAL SERVICES
435 N. MACOMB STREET
TALLAHASSEE, FL 32301
CONTACT: LANCE JACOBSON
PHONE: (850) 891-7166

STORMWATER
CITY OF TALLAHASSEE
435 N. MACOMB STREET
TALLAHASSEE, FL 32301
CONTACT: MATTHEW HENNESSY
PHONE: (850) 891-7169

ELECTRIC
CITY OF TALLAHASSEE
ELECTRIC & GAS UTILITY
CONTACT: KENTON JAMES
PHONE: (850) 891-5105

SEWER & WATER
UNDERGROUND UTILITIES & PUBLIC INFRASTRUCTURE
CITY OF TALLAHASSEE
2602 JACKSON BLUFF ROAD
TALLAHASSEE, FL 32304
CONTACT: WILLIAM TOLAR
PHONE: (850) 556-5873

FIRE PREVENTION
FIRE DEPT. OF THE CITY OF TALLAHASSEE
CONTACT: GARY DONALDSON
PHONE: (850) 891-7179

CODE ENFORCEMENT
CITY OF TALLAHASSEE
LAND USE & ENVIRONMENTAL SERVICES
435 N. MACOMB STREET
TALLAHASSEE, FL 32301
CONTACT: LANCE JACOBSON
PHONE: (850) 891-7166

HEALTH DEPT.
TALLAHASSEE HEALTH DEPT.
2585 MERCHANTS ROW BLVD
TALLAHASSEE, FL 32311
PHONE: (850) 245-4444

LANDSCAPE
CPH LLC
500 W FULTON ST
SANFORD, FL 32771
(407) 322-6841
CONTACT: DANITA BRYANT

TANK AND PRODUCT PIPING
GALLOWAY
6162 S. WILLOW DRIVE, SUITE 320
GREENWOOD VILLAGE, COLORADO 80111
CONTACT: DAVE JONES
(303) 770-8884

OWNER
MURPHY OIL USA, INC
200 PEACH STREET
EL DORADO, AR 71730
PM: JOHN GOETZ
(870) 814-4106

CIVIL ENGINEER/BUILDING DESIGN
CPH LLC
1031-C W 23RD ST
PANAMA CITY, FL 32405
CONTACT: JASON TOOLE
(850) 563-1490

GEOTECHNICAL
UNITED CONSULTING
625 HOLCOMB BRIDGE RD.
NORCROS, GA 30071
CONTACT: CHRIS ROBERDS
(770) 209-0029

BUILDING CANOPY MANUFACTURER
FREY MOSS STRUCTURES
1801 ROCKDALE INDUSTRIAL BLVD.
CONYERS, GEORGIA 30012
CONTACT: JENNIFER GOODMAN
(770) 483-7543 EXT. 151

BUILDING/CANOPY DESIGN
GREENBERG FARROW
3 EXECUTIVE DRIVE, SUITE 150
SOMERSET, NJ 08873
CONTACT: CHRIS CERBO
(732) 537-0832

AGENCY

DATE

CITY OF TALLAHASSEE SITE PLAN REVIEW

--/--/--

CITY OF TALLAHASSEE BUILDING PERMIT

--/--/--

CITY OF TALLAHASSEE FIRE PERMIT

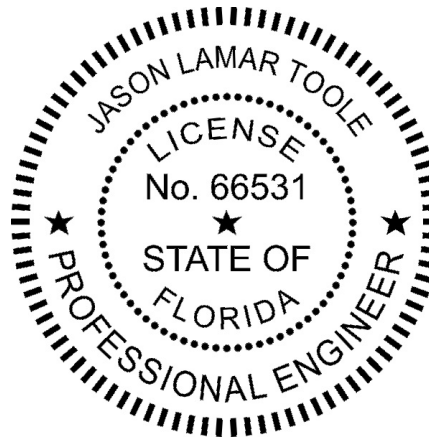
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LEON COUNTY FIRE PERMIT

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LEON COUNTY ACCESS PERMIT

FDOT DRAINAGE PERMIT

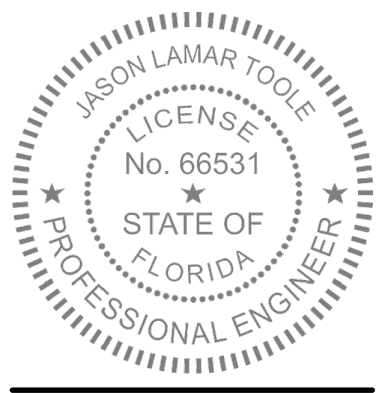


Digitally signed
by Jason L Toole
Reason: I am the
author of this
document
Date: 2026.08.10
15:43:55-05'00'

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies



BASED ON SURVEY BY:
CPH LLC
500 WEST FULTON STREET,
SANFORD, FL. 32771
EMAIL: PKATREK@CPHCORP.COM
PHONE: (407) 322-6841
DATE: 10/11/2022



JASON L. TOOLE, P.E.
No. 66531

REVISION	DATE	DESCRIPTION

JOB NO.: M3682

DATE	SHEET NO.
06/15/26	
REV-0	C-0

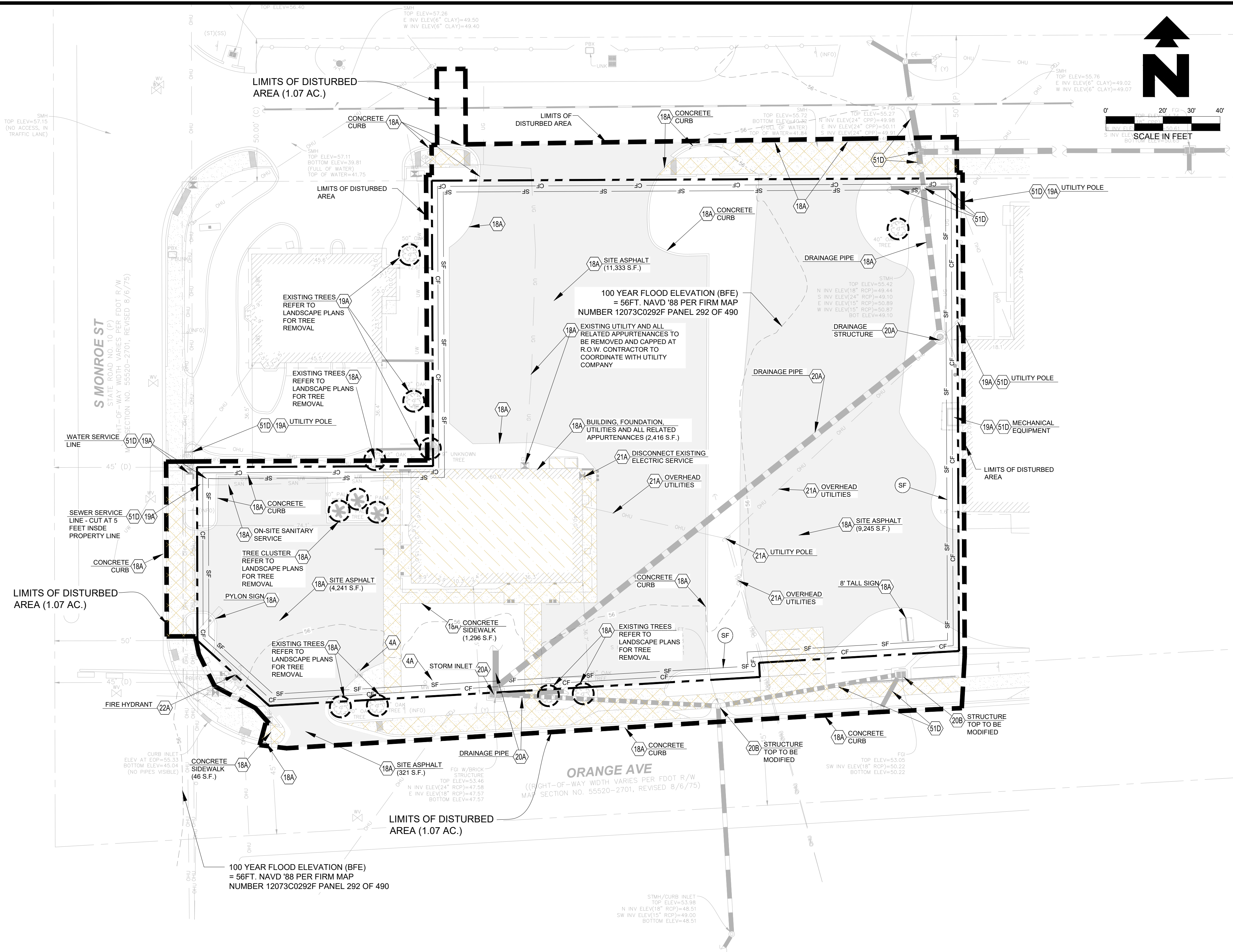
CPH LLC

1031-C W 23RD ST
PANAMA CITY, FLORIDA
(850) 563-1590

CONTACT: JASON L. TOOLE, P.E.

* NOT INCLUDED IN THIS SUBMITTAL

J:\M3892\Civil\DWG\Current_Plan_Set\Working\C-2 Demolition Plan.dwg Aug. 10, 2026 - 10:06am kupp



THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

EXISTING	
S	SANITARY SEWER LINE
W	WATER LINE
UGE	UNDERGROUND ELECTRIC LINE
UGT	UNDERGROUND TELEPHONE LINE
OHE, TV, T	OVERHEAD ELECTRIC, TELEVISION, TELEPHONE
12	CONTOUR LINE W/ELEVATION LABEL
○	SEWER MANHOLE
⊕	WATER METER
⊕	WATER VALVE
⊕	FIRE HYDRANT
●	UTILITY POLE

PROPOSED	
—	BOUNDARY LINE
CF	CONSTRUCTION FENCE (SEE DETAIL SHEETS)
EXISTING CONCRETE PAVEMENT TO BE REMOVED	
EXISTING BUILDING TO BE REMOVED	
EXISTING ASPHALT TO BE REMOVED	
REMOVE EXISTING UTILITY	
CUT AND CAP/DISCONNECT EXISTING UTILITY	
56	PROPOSED 100 YEAR FLOOD ELEVATION (BFE) = 56FT. NAVD '88

- GENERAL DEMOLITION NOTES
- A. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF THE EXISTING STRUCTURES, RELATED UTILITIES, PAVING, UNDERGROUND STORAGE TANKS AND ANY OTHER EXISTING IMPROVEMENTS AS NOTED.
- B. CONTRACTOR IS TO REMOVE AND DISPOSE OF ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM PREVIOUS AND CURRENT DEMOLITION OPERATIONS. DISPOSAL WILL BE IN ACCORDANCE WITH ALL LOCAL, STATE AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS.
- C. THE GENERAL CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT. THE CONTRACTOR WILL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGES TO THE ADJACENT PROPERTIES OCCURRING DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
- D. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

- DEMOLITION NOTES
- 4A EXISTING MONITORING WELL TO BE REMOVED
- 18A EXISTING TO BE REMOVED
- 19A EXISTING TO REMAIN
- EXISTING DRAINAGE TO BE REMOVED ONLY AFTER PROPOSED DRAINAGE SYSTEM HAS BEEN CONNECTED TO ORANGE AVE. ROW. SEE SHEET C-4 FOR PROPOSED DRAINAGE
- 20B EXISTING DRAINAGE TO MODIFIED. SEE SHEET C-4 FOR PROPOSED DRAINAGE
- 21A CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR REMOVAL OF POWER LINES, POLES, AND/OR OTHER FACILITIES
- 22A CONTRACTOR TO REMOVE EXISTING FIRE HYDRANT. COORDINATE WITH UTILITY COMPANY PRIOR TO REMOVAL.
- 51B LIMITS OF SAWCUT AND PAVEMENT REMOVAL
- 51D PROTECT EXISTING STRUCTURE AND/OR PIPES DURING DEMOLITION AND CONSTRUCTION PHASES

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SHEET NO. **C-2**

JASON LAMAR TOOLE
LICENSED PROFESSIONAL ENGINEER
No. 66531
STATE OF FLORIDA

JASON L. TOOLE, P.E.
FL P.E. No. 66531

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DEMOLITION PLAN
MURPHY EXPRESS
2785 S MONROE ST
TALLAHASSEE FLORIDA

REV - 4

9/19/22	T.H.H.	J.C.H.	A.M.D.	A.M.D.	J.C.H.	JOB NO. M3892
DATE	PRN	DES	PM	DES	DRW	

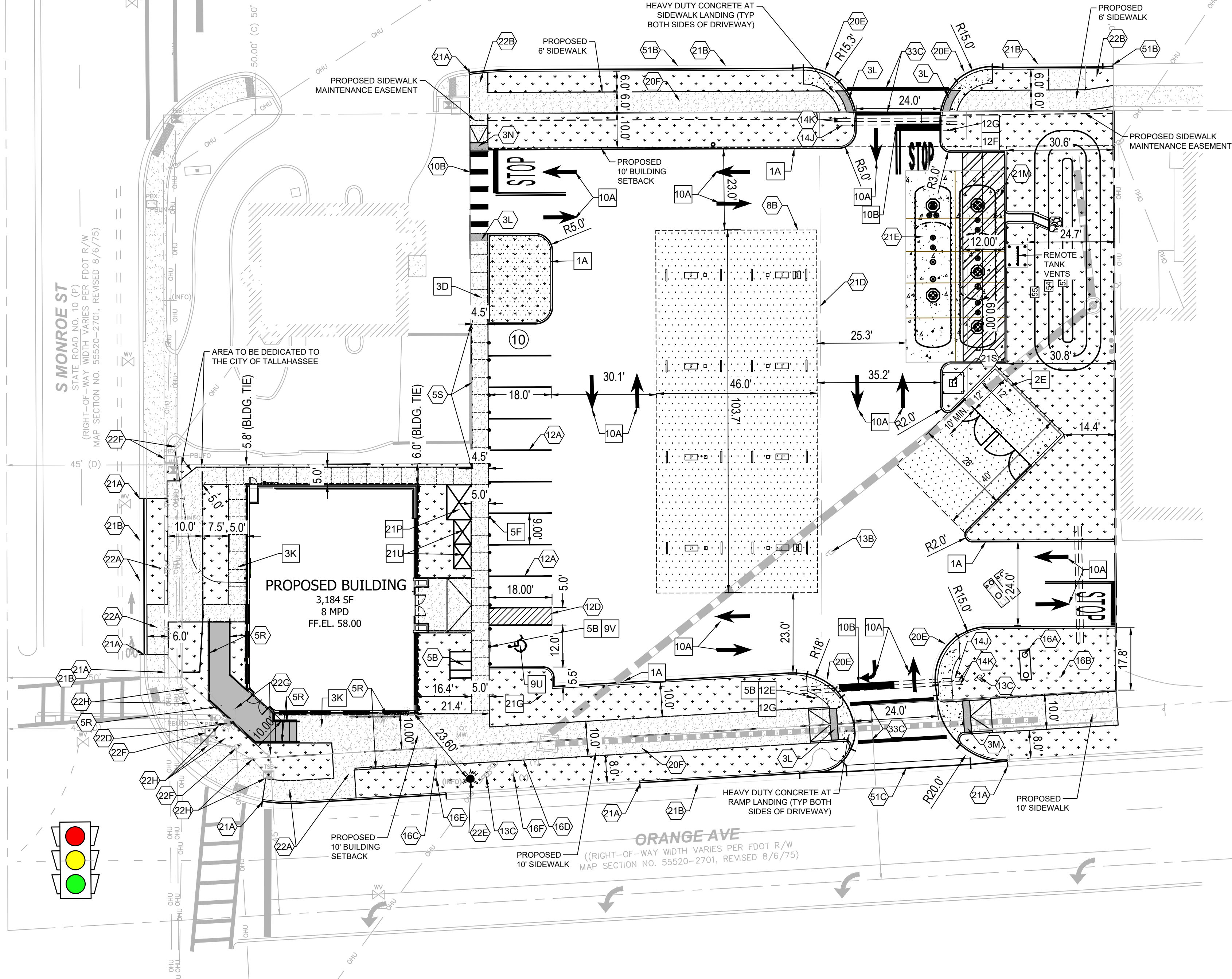
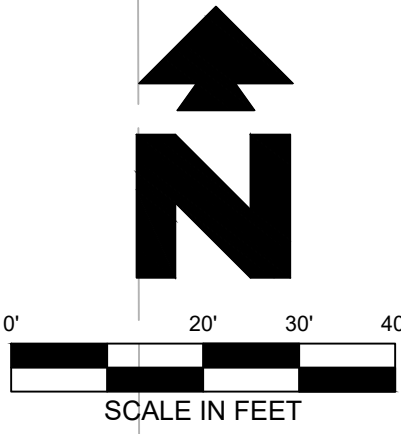
cph
www.cphcorp.com
Building Better Communities Together

1902 SW 1st Street
Miami, FL 33135
Ph: 305.274.4805

Plans Prepared By:
CPH LLC
A Full Service A & E Firm

MURPHY OIL USA, INC.
200 PEACH STREET
EL DORADO, AR 71731-7000

MURPHY OIL USA



CITY OF TALLAHASSEE GENERAL SITE NOTES

- A. BUILDING SHALL MEET THE REQUIRED NON-RESIDENTIAL TRANSPARENCY.
B. SECTION 10-284.2(A)(4) - STORES MAY NOT EXCEED 14 FEET IN HEIGHT FROM FINISHED FLOOR TO FINISHED CEILING, EXCEPT FOR A FIRST FLOOR COMMERCIAL FUNCTION, WHICH MUST BE A MINIMUM OF 12 FEET WITH A MAXIMUM OF 25 FEET.
C. SECTION 10-284.2(A)(8) - TRANSPARENCY. ALL BUILDING ELEVATIONS ADJACENT TO PUBLIC RIGHT OF WAY OR PEDESTRIAN WAYS SHALL PROVIDE TRANSPARENCY AT EYE LEVEL - BETWEEN 3 AND 8 FEET ABOVE FINISHED GRADE - IN ACCORDANCE WITH THE FOLLOWING MINIMUM PERCENTAGES: NON-RESIDENTIAL - 60% SIDE ELEVATIONS - 30% IN ALL STRUCTURE, A MINIMUM OF 15% TRANSPARENCY SHALL BE PROVIDED ABOVE THE FIRST STORY OF FACADES ADJACENT TO THE PUBLIC RIGHT OF WAY. REFLECTIVE GLASS IS PROHIBITED.
D. SECTION 9-152.3(A)-I. A SITE PLAN SHALL BE DRAWN TO AN APPROPRIATE ENGINEER'S SCALE SHOWING: THE ZONING DISTRICT CATEGORIES AND EXISTING LAND USES ON PROPERTIES ADJACENT TO THE PROPOSED DEVELOPMENT.

GENERAL SITE NOTES

- A. ALL DIMENSIONS SHOWN ARE TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
B. ALL CURB RETURN RADII SHALL BE 3' AS SHOWN TYPICAL ON THIS PLAN, UNLESS OTHERWISE SPECIFIED.
C. UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON:
ALL CURB AND GUTTER ADJACENT TO PAVING SHALL BE INSTALLED PER DETAIL.
D. PAVEMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE PAVING PLAN OVER THE ENTIRE PARKING LOT AREA AND ALL APPROACH DRIVES SEE ASSOCIATED PLANS FOR CANOPY, COLUMN, PUMP ISLAND DETAILS AND LAYOUT.
E. CONTRACTOR SHALL BEGIN CONSTRUCTION OF ANY LIGHT POLE BASES FOR RELOCATED LIGHT FIXTURES AND RELOCATION OF ELECTRICAL SYSTEM AS SOON AS DEMOLITION BEGINS. CONTRACTOR SHALL BE AWARE THAT INTERRUPTION OF POWER TO ANY LIGHT POLES OR SIGNS SHALL NOT EXCEED 24 HOURS.
F. THE LOCATION OF THE CONSTRUCTION FENCE ON THE DRAWINGS IS FOR GRAPHICAL REPRESENTATION ONLY. THE CONTRACTOR IS TO ENSURE THAT THE CONSTRUCTION FENCE ENCOMPASSES THE ENTIRE WORK AREA.
G. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEEDED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
H. CONTRACTOR SHALL PURCHASE AND INSTALL A MAILBOX AND SHALL COORDINATE LOCATION OF MAILBOX WITH MURPHY CONSTRUCTION MANAGER AND/OR ON-SITE REPRESENTATIVE AND LOCAL POSTMASTER.
I. ALL PROPOSED PAVEMENT STRIPING OR MARKINGS SHALL FOLLOW THE SPECIFICATIONS FOR PAVEMENT INCLUDED IN DETAIL 10A.

- J. ACCESSIBLE ROUTE SHALL BE PROVIDED FROM PUBLIC R.O.W. TO THE ACCESSIBLE BUILDING OR FACILITY ENTRANCE THEY SERVE - FBCA 206.2.1
K. ACCESSIBLE ROUTE SHALL COMPLY WITH SLOPE AND LEVEL CHANGES REQUIREMENTS. SLOPES FOR ACCESSIBLE ROUTES SHALL BE NO STEEPER THAN 1:20 (EXCEPT FOR RAMPS), AND 1:48 MAX CROSS SLOPE - FBCA 403.3. CHANGES IN LEVEL IN WALKING SURFACES MAY NOT EXCEED 1/4" VERTICALLY. CHANGES IN LEVEL BETWEEN 1/4" HIGH MINIMUM AND 1/2" HIGH MAXIMUM SHALL BE BEVELED WITH A SLOPE NOT STEEPER THAN 1:2 - FBCA 303.2 & 303.3. CHANGES IN LEVEL MORE THAN 1/2" SHALL BE RAMPED AND COMPLY WITH FBCA 405 OR 406 - FBCA 303.4.
L. SEE ARCHITECTURAL ELEVATIONS FOR GLAZING DATA

PROPOSED	
	PROPERTY LINE
	BUILDING SETBACK/ LANDSCAPE BUFFER LINE
	CONCRETE SIDEWALK
	LOADING ZONE
	LANDSCAPE
	LANDSCAPE ISLAND (APPROX. 430 S.F.)
	PARKING SPACE COUNT
	SITE LIGHTING
	TRANSFORMER

SITE DATA

STATEMENT OF INTENT: THE OWNER PROPOSES TO CONSTRUCT A NEW 3,184 S.F. MURPHY EXPRESS CONVENIENCE STORE AND THE REQUIRED SITE SUPPORT ELEMENTS TO SERVE IT.

SITE ADDRESS:	2785 S MONROE ST CITY OF TALLAHASSEE
TOWNSHIP:	SEC. 12 TOWNSHIP 1 S. RANGE 1 W
PARCEL:	411230 D0011
SITE AREA:	38,517 S.F. (0.88AC. ±)
EXISTING ZONING USE:	CU-45 (CENTRAL URBAN DISTRICT)
PROPOSED ZONING:	CU-45 (CENTRAL URBAN DISTRICT)
EXISTING LAND USE:	RESTAURANT
PROPOSED LAND USE:	GAS STATION AND CONVENIENCE STORE
MAX. BUILDING HEIGHT:	45' MAX.
PROP. BUILDING HEIGHT:	21'-4" MAX.
PROP. FUEL CANOPY HEIGHT:	14'-6" MAX.
TOTAL BUILDING AREA:	3,099 S.F.
FLOOR AREA RATIO:	0.08
NORTH:	CU-45
WEST:	ROW
EAST:	CU-45
SOUTH:	ROW
FLOOD ZONE:	THE ABOVE DESCRIBED PROPERTY APPEARS TO BE IN ZONE AE AND X, IN ACCORDANCE WITH THE FIRM MAP OF THE CITY OF TALLAHASSEE, COMMUNITY MAP NUMBER 12073C0292F. MAP REVISED OCTOBER, 2020.
ZONING:	CU-45
LAND USE:	(COMMERCIAL)
ROW:	(COMMERCIAL)
CU-45:	(COMMERCIAL)
ROW:	(COMMERCIAL)

PRE-CONSTRUCTION

IMPERVIOUS SITE RATIO (ISR)		
AREA	SQUARE SF	%
IMPERVIOUS (ROOF AND PAVING)	29,305	76
GREEN SPACE	9,212	24
TOTAL SITE	38,517	100

POST-CONSTRUCTION

IMPERVIOUS SITE RATIO (ISR)		
AREA	PROJECT AREA	TOTAL
AREA	SQUARE SF	%
BUILDING AREA	3,099	8
VUA	23,072	60
MISCELLANEOUS	4,092	11
POND AREA	1,231	3
TOTAL IMPERVIOUS	30,263	79
GREEN SPACE	7,023	18
TOTAL SITE	38,517	100

LANDSCAPE BUFFERS	
NORTH:	REQUIRED 10'
SOUTH:	PROVIDED 10'

VEHICULAR USE ARE:	
LANDSCAPE	REQUIRED (1 PER 8000 SF) = 3
ISLAND:	PROVIDED VUA = 23,072 SF

BUILDING SETBACKS	
NORTH:	REQUIRED 5'
SOUTH:	PROVIDED 6'
EAST:	REQUIRED 10'
WEST:	PROVIDED 12.5'

PARKING INFORMATION:

REQUIRED:

1 PARKING SPACE/ FUEL PUMPS

TOTAL MINIMUM PARKING SPACES REQUIRED = 16

TOTAL SPACES PROVIDED = 10 (C-STOPS) + 16 (CANOPY) = 26 TOTAL

REQUIRED ADA SPACES = 1 PROVIDED ADA SPACES = 1

BIKE PARKING:
REQUIRED: 3 PROVIDED: 3

SITE KEYNOTES

- 1L PROPOSED 6" SOLID DOUBLE YELLOW (THERMOPLASTIC) PER FDOT 2023-24 STANDARD PLANS INDEX 711-001
1K PROPOSED 18" SOLID SINGLE YELLOW (THERMOPLASTIC) PER FDOT 2023-24 STANDARD PLANS INDEX 711-011
3L PROPOSED ADVANTAGED CAST IRON DETECTABLE WARNING MATS
3M PROPOSED DETECTABLE WARNING AND SIDEWALK CURB RAMPS TYPE "CR-F" PER FDOT 2023-24 STANDARD PLANS INDEX 522-002
3N PROPOSED DETECTABLE WARNING AND SIDEWALK CURB RAMPS TYPE "CR-E", OPTION A PER FDOT 2023-24 STANDARD PLANS INDEX 522-002
5B BIKE LOCKER PER CITY OF TALLAHASSEE.
5R ALUMINUM PIPE HANDRAIL ON ALL SIDES PER FDOT 2023-24 STANDARD PLAN INDEX # 515-070.
5S APPROX. 42 L.F. - 3' HIGH OPAQUE WOOD FENCE WITH STEEL POSTS
8B OVERHEAD CANOPY - (TYP. PER CANOPY. PLANS)
12A 4" TRAFFIC YELLOW LANE STRIPE.
12D 4" WIDE PAINTED STRIPES, 2" O.C. @ 45°
13B EXISTING POWER POLE TO BE RELOCATED.
13C PROPOSED RELOCATED POWER POLE
14J GC TO INSTALL (1) 4" PVC SLEEVE FOR IRRIGATION LINE. SEE UTILITY PLAN FOR INSTALLATION REQUIREMENTS.
14K GC TO INSTALL (2) 4" PVC SLEEVE FOR FUTURE USE. SEE UTILITY PLAN FOR INSTALLATION REQUIREMENTS.
16A PROPOSED MURPHY PYLON SIGN
16B EXISTING PYLON SIGN TO BE REMOVED
16C EXISTING STATE ROAD/ARROW SIGN TO BE RELOCATED
16D EXISTING BIKE LANE SIGN TO BE RELOCATED
16E PROPOSED LOCATION OF STATE ROAD/ARROW SIGN
16F PROPOSED LOCATION OF EXISTING BIKE LANE SIGN
20D TYPE "F" CURB AND GUTTER FDOT 2025-26 STANDARD PLANS INDEX # 520-001.
20E TYPE "E" CURB AND GUTTER PER FDOT 2025-26 STANDARD PLANS INDEX # 520-001, SHEET 1 OF 2. BACKFILL W/ 4.0' MIN WIDTH OF HEAVY DUTY CONCRETE.
20F SIDEWALK PER FDOT 2025-26 STANDARD PLAN INDEX #522-001
21A PROP. CURB TO MATCH EXISTING CURB.
21B TYPE F CURB AND GUTTER PER FDOT 2025-26 STANDARD PLANS INDEX 520-001.
21C 3" VALLEY GUTTER "SECTION A-A", SHEET 2 OF 3 PER FDOT 2023-24 STANDARD PLANS INDEX # 520-001.
21D EDGE OF CANOPY CONCRETE SLAB.
21E UNDERGROUND STORAGE TANKS (1 - 25,000 GAL. & 1 - 26,000 GAL.).
21L PRICE SIGN PER APPROVED ELEVATION.
21M PROPOSED LOADING ZONE TO NOT BE STRIPED ON SITE PER CITY OF TALLAHASSEE LAND DEVELOPMENT CODE.
21S REMOTE DEF FILL.
22A EXISTING DRIVEWAY TO BE REMOVED AND REPLACED WITH SIDEWALK AND TYPE F CURB AND GUTTER.
22B EXISTING SIDEWALK TO BE REMOVED AND REPLACED WITH PROPOSED 6" WIDE SIDEWALK, 45" WIDE SOD AREA AND TYPE F CURB AND GUTTER PER FDOT 2025-26 STANDARD PLANS INDEX # 520-001.
22D EXISTING FIRE HYDRANT TO BE REMOVED
22E PROPOSED FIRE HYDRANT LOCATION
22F EXISTING CITY OF TALLAHASSEE ELECTRIC POLE AND PBX TO REMAIN
22G EXISTING CITY OF TALLAHASSEE ELECTRIC GUY ANCHOR TO BE RELOCATED
22H EXISTING TRAFFIC SIGNAL EQUIPMENT TO REMAIN
22N EXISTING HVAC TO REMAIN
23C PROPOSED 12" THICK WHITE SOLID THERMOPLASTIC PER FDOT STANDARD PLANS INDEX 711-001
51B LIMITS OF SAWCUT AND PAVEMENT REMOVAL.
51C PROPOSED DROP CURB PER FDOT 2023-23 STANDARD PLANS INDEX #520-001, SHEET 1 OF 2
52V PROPOSED CURB INLET

SITE DETAILS

- 1A INTEGRAL CONCRETE CURB - SEE SHEET C-9
2E DUMPSTER ENCLOSURE - SEE SHEET C-13
3D CONCRETE SIDEWALK - SHEET C-11
3K CONCRETE SIDEWALK AROUND BUILDING - SHEET C-11
5B TRAFFIC SIGN IN BOLLARD - SHEET C-9
5F STEEL BOLLARD W/ COVER (SINGLE)
9U ACCESSIBLE PARKING SYMBOL (SEE PAINT COLOR INDICATED AT SYMBOL)
9V ACCESSIBLE / VAN ACCESSIBLE PARKING SIGN MOUNTED IN BOLLARD
10A TRAFFIC FLOW ARROW (TYP.) - SEE SHEET C-9
10B STOP BAR (TYP.)
12E "RIGHT TURN ONLY" SIGN - SEE SHEET C-9
12G "STOP" SIGN - SEE SHEET C-9
12F "TRUCKS LEFT TURN ONLY" SIGN
13A SITE LIGHT POLE. SEE PHOTOMETRIC PLANS FOR POLE BASE DETAIL, FIXTURE TYPE, AND MOUNTING DETAILS.
18G CONSTRUCTION CAMERA (COORDINATE LOCATION WITH PM) - SEE SHEET C-9
21G AIR VACUUM UNIT WITH 4' x 7' CONCRETE SLAB
21P 7' x 10' CONCRETE SLAB FOR PROPANE TANKS
21U 5' x 7' ICE UNIT



Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

SHEET NO.

C-3



JASON L. TOOLE, P.E.
FL P.E. No. 66531

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JOB NO. M3882

J.C.H.

DRW

A.M.D.

DES

A.M.D.

PM

PRN

T.H.H.

DATE

9/19/22

REV-4

SITE PLAN

MURPHY EXPRESS

2785 S MONROE ST

TALLAHASSEE FLORIDA



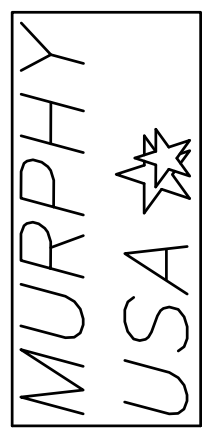
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Ph: 305.274.4805

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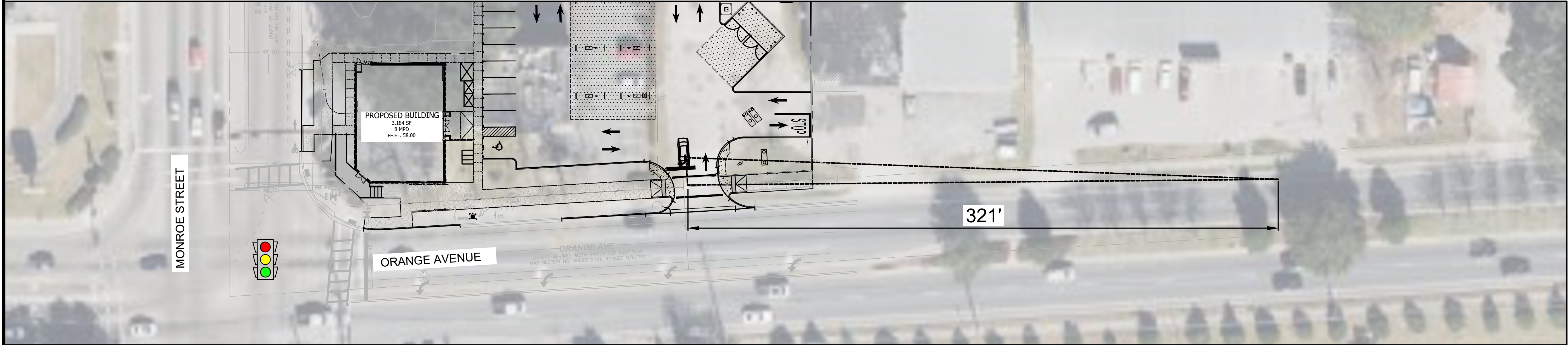
MURPHY OIL USA, INC.



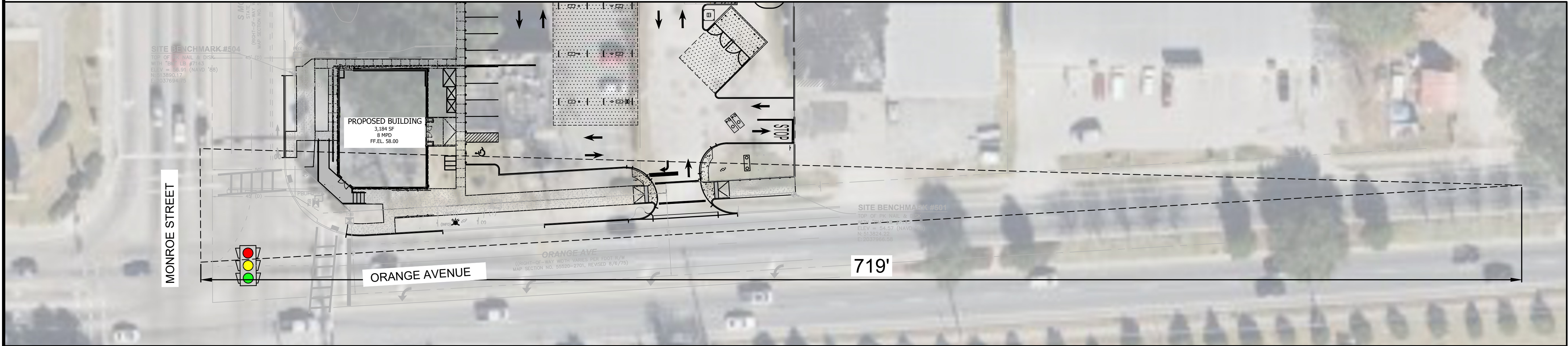
200 PEACH STREET

EL DORADO, AR 71731-7000

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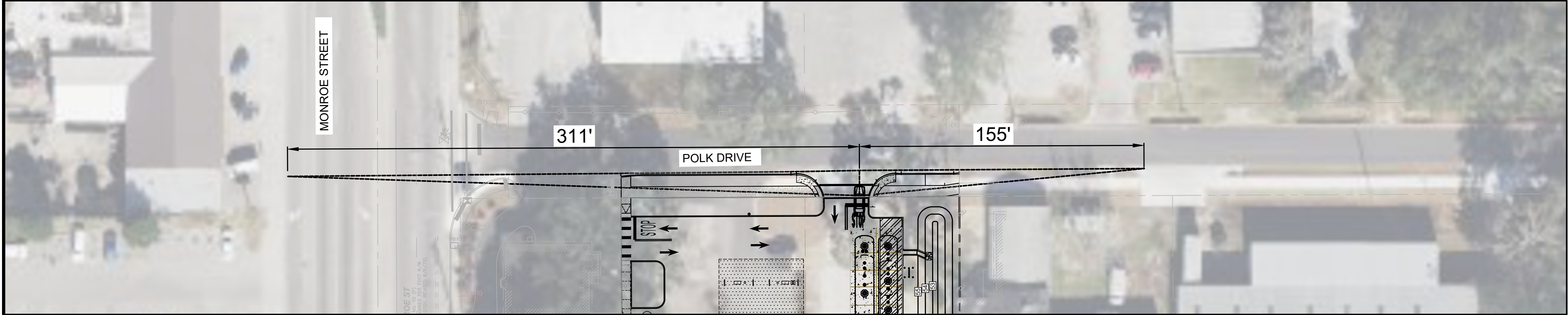


SITE TRIANGLE - ORANGE AVENUE



SITE TRIANGLE - INTERSECTION OF ORANGE & MONROE

SITE TRIANGLE - POLK DRIVE



MURPHY OIL USA, INC.
MURPHY
USA

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SITE TRIANGLE EXHIBIT
MURPHY EXPRESS
2785 S MONROE ST
TALLAHASSEE FLORIDA

REV - 4 9/19/22 DATE T.H.H. PRN A.M.D. PM A.M.D. JCH. DRW JOB NO. M3882

JASON L. TOOLE, P.E.
FL P.E. No. 66531
JASON L. TOOLE, P.E.
Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

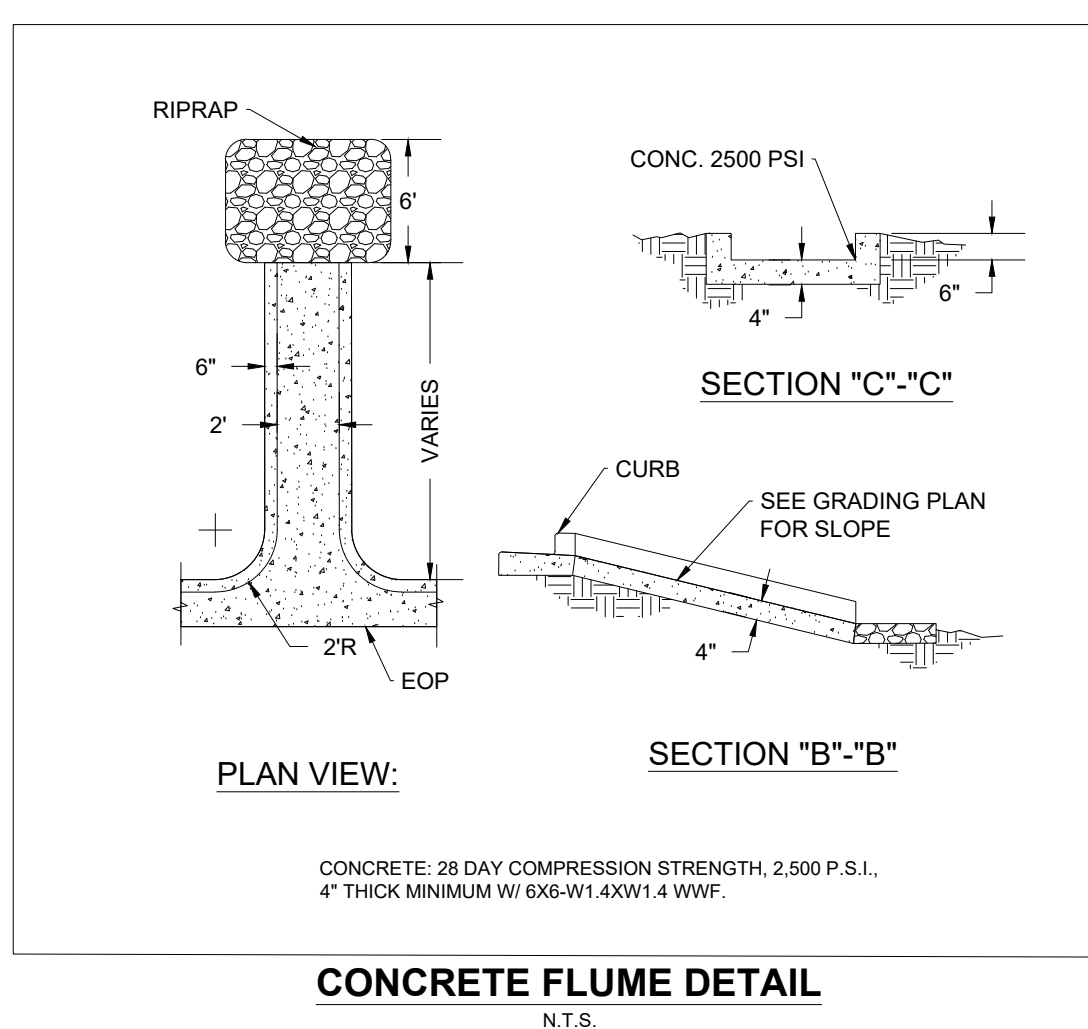
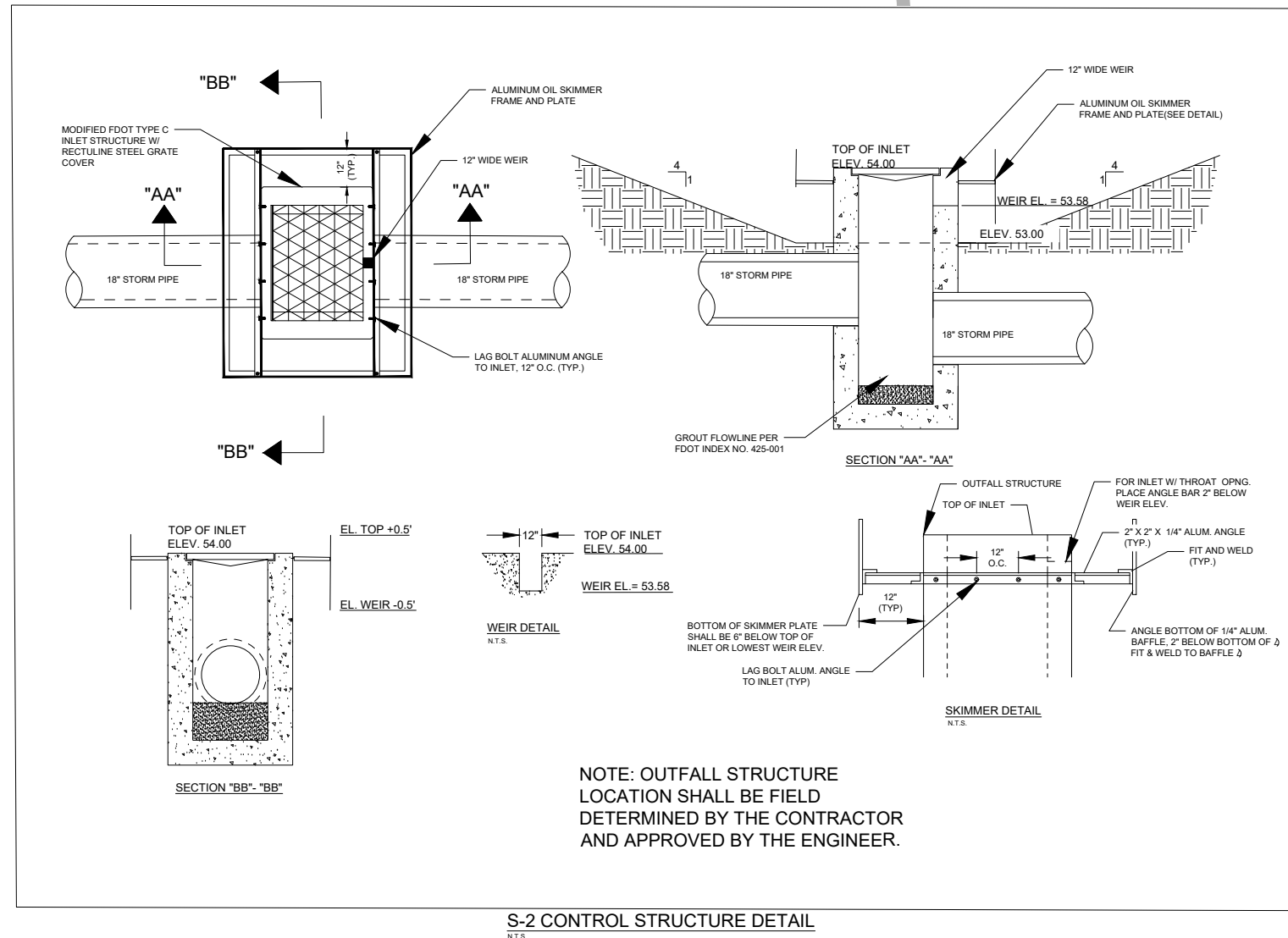
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CONTRACTOR NOTICE 2020 (effective December 31, 2020)

The Contractor & Owner will be held accountable during construction for all site improvements. Compliance with Florida Statutes 553.5041 (F.S.) and the 2020 Florida Building Code, Accessibility, 7th Edition (FBC-A), is mandatory. If non-compliant at final inspection, contractor will be required to modify construction to comply with F.S. and FBC-A. The following items take precedence and supersede other site details on drawings:

1. ACCESSIBLE PARKING spaces shall be located on an accessible route no less than 44' wide so that users will not be compelled to walk or wheel behind parked vehicles except behind his or her own vehicle. §208.3 and §502.3, FBC-A and F.S. 553.5041.
2. ACCESSIBLE PARKING spaces and access aisles serving a particular building shall be located on the shortest accessible route from the accessible (HIO) parking to an accessible entrance. §208.3.1 FBC-A and F.S. 553.5041(5)(b).
3. ACCESSIBLE PARKING spaces shall be 12' wide, and outlined with blue paint. §502.2 and §502.6, FBC-A
4. ACCESS AISLES required adjacent to parking spaces shall be 5' wide with diagonal striping. §502., FBC-A
5. ACCESSIBLE PARKING and access aisles shall be level (not to exceed 1/48) on a stable, firm & slip resistant surface. Re: §502.1, §502.3, FBC-A.
6. ACCESSIBLE PARKING signs shall be FDOT approved and shall read "PARKING BY DISABLED PERMIT ONLY" and shall indicate a \$250 fine for illegal use. Install signs a minimum 60" (inches) from the ground to the bottom of the sign(s). Re: §502.6 and F.S. 553.5041.
7. CURB RAMPS shall not exceed 1:12 slope, and curb ramp flares shall not exceed 1:10 slope. Curb ramps and flared sides shall not encroach upon parking spaces, access aisles, or vehicular traffic lanes. The counter slope of adjacent road surfaces & gutters shall not exceed 1:20. Re: §405.2, §406., FBC-A.
8. CURB RAMPS shall have a landing with a minimum clear length of 36" shall be located at the top side of each curb ramp, a clear width at least as wide as the curb ramp (excluding flared sides) leading to it. Exception: for alterations, where there is no landing, curb ramp flares shall be provided, and shall not be steeper than 1:12 slope. Re: §406., FBC-A
9. ALL RAMPS with a rise greater than 6" shall provide edge protection complying with §405.9 FACBC. Ramps shall have 60" min level landings at the top & bottom. Re: §405.7, FBC-A.
10. ALL RAMPS with a rise greater than 6" shall have handrails on both sides with 12" horizontal extensions at the top & bottom of the ramp. Re: §1010.9 FBC-B (Florida Building Code - Building) and §505.10 FBC-A.
11. ACCESSIBLE ROUTES, to "main entry" from an accessible parking space, and from the "public way" shall not exceed 1:20 slope (unless ramps, handrails with proper extensions are provided) with cross slope not in excess of 1:48. Re: §206, §402 and §403., FBC-A.
12. *Exception: An accessible route shall not be required between accessible buildings, accessible facilities, accessible elements, and accessible spaces if the only means of access between them is a vehicular way not providing pedestrian access. Re: §206.2.2 FBC-A



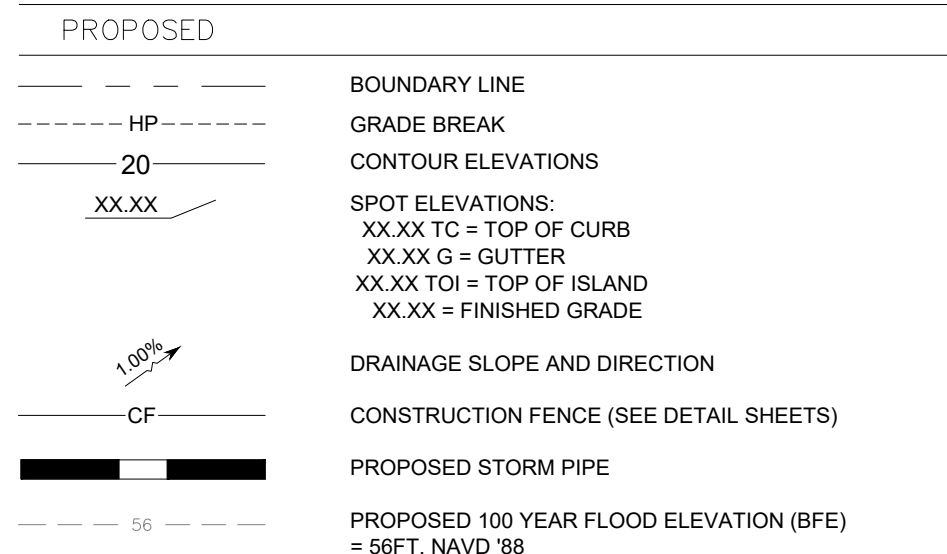
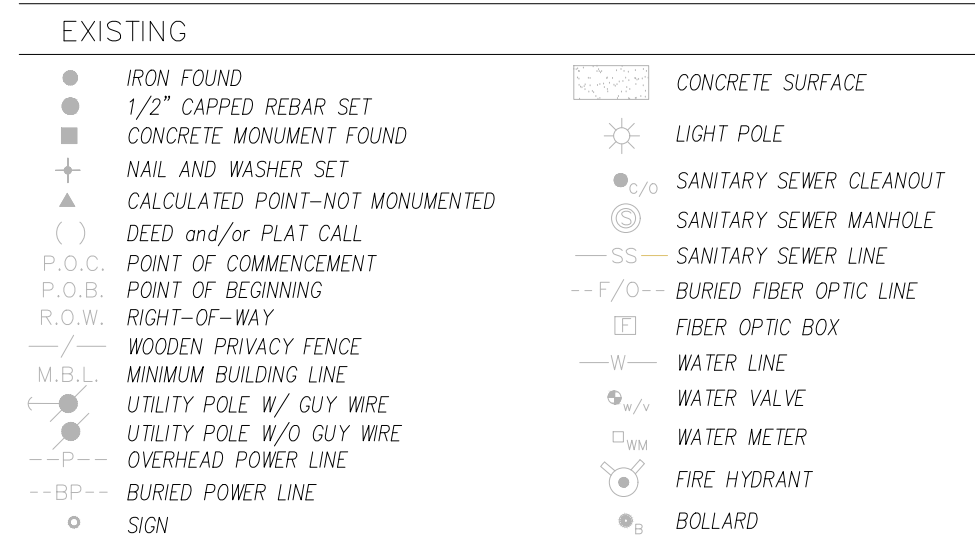
TBM #501
TOP OF PK NAIL & DISK
WITH "BM" LB #7173
ELEVATION=54.57 (NAVD '88)

TBM #504
TOP OF PK NAIL & DISK
WITH "BM" LB #7173
ELEVATION=56.91 (NAVD '88)

SEE SHEET C-4.2 FOR STORM DRAINAGE AND BUILDING ROOF DRAINAGE AND CANOPY DRAINAGE

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Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)



STORMWATER SCHEDULE

- P-1 63 LF TOTAL 18" HDPE N-12 STORM PIPE @ 0.16%
- P-2 49 LF TOTAL 18" HDPE N-12 STORM PIPE @ 1.22% SLOPE
- P-3 53 LF TOTAL 18" HDPE N-12 STORM PIPE @ 0.20% SLOPE
- P-4 132 LF TOTAL 18" HDPE N-12 STORM PIPE @ 0.20% SLOPE
- P-5 68 LF TOTAL 18" HDPE PIPE N-12 STORM PIPE @ 0.20% SLOPE
- P-6 35 LF TOTAL 18" HDPE STORM PIPE @ 0.20% SLOPE
- P-7 18 LF TOTAL 18" HDPE STORM PIPE @ 0.20% SLOPE
- P-8 51 LF TOTAL 18" HDPE STORM PIPE @ 0.20% SLOPE

- S-1 EXISTING MANHOLE TO REMAIN AND BE MODIFIED.
RIM ELEV. (EXIST.) = 55.42
INV. ELEV. (EXIST. N.) = 49.44
INV. ELEV. (EXIST. E.) = 50.89
INV. ELEV. (PROP. S.) = 49.40
- S-2 TYPE "C" MODIFIED CURB INLET PER FDOT STANDARD PLANS INDEX NO. 425-020 W/ MODIFIED TYPE J BOTTOM PER FDOT STANDARD PLANS INDEX 425.010 W/ TYPE II SKIMMER AND SUMP PER FDOT STANDARD PLAN INDEX 443-002. SEE DETAIL THIS SHEET.
RIM ELEV. = 54.00
INV. ELEV. (N.) = 49.30
INV. ELEV. (S.) = 50.95
SUMP ELEV. = 48.80
- S-3 EXISTING STRUCTURE TO BE MODIFIED INTO A TYPE "P" MANHOLE PER FDOT STANDARD PLANS INDEX NO. 425-010
RIM ELEV. (EXIST.) = 54.75
INV. ELEV. (EXIST. SW.) = 50.22
INV. ELEV. (PROP. N.) = 50.22
- S-4 TYPE "F" CURB INLET PER FDOT STANDARD PLANS INDEX NO. 425-020 W/ MODIFIED TYPE J BOTTOM PER FDOT STANDARD PLANS INDEX 425.010 W/ TYPE II SKIMMER AND SUMP PER FDOT STANDARD PLAN INDEX 443-002
RIM ELEV. = 55.50
INV. ELEV. (N.) = 52.10
INV. ELEV. (W.) = 52.10
- S-5 TYPE "C" CURB INLET PER FDOT STANDARD PLANS INDEX NO. 425-020 W/ MODIFIED TYPE J BOTTOM PER FDOT STANDARD PLANS INDEX 425.010 W/ TYPE II SKIMMER AND SUMP PER FDOT STANDARD PLAN INDEX 443-002
RIM ELEV. = 55.50
INV. ELEV. (E.) = 51.85
INV. ELEV. (S.) = 51.85
- S-6 TYPE "C" CURB INLET PER FDOT STANDARD PLANS INDEX NO. 425-020 W/ MODIFIED TYPE J BOTTOM PER FDOT STANDARD PLANS INDEX 425.010 W/ TYPE II SKIMMER AND SUMP PER FDOT STANDARD PLAN INDEX 443-002
RIM ELEV. = 56.75
INV. ELEV. (N.) = 51.60
INV. ELEV. (E.) = 51.60
- S-7 TYPE "D" CURB INLET PER FDOT STANDARD PLANS INDEX NO. 425-020 W/ TYPE II SKIMMER AND SUMP PER FDOT STANDARD PLAN INDEX 443-002
RIM ELEV. = 54.00
INV. ELEV. (W.) = 51.45
INV. ELEV. (S.) = 51.45
- S-8 TYPE "P" MANHOLE PER FDOT STANDARD PLANS INDEX NO. 425-010
RIM ELEV. = 55.75
INV. ELEV. (S.) = 50.35
INV. ELEV. (SW.) = 50.35
INV. ELEV. (N.) = 50.35

GENERAL GRADING NOTES

- A. PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN, OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSING AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
- B. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED, IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREA SHALL THEN BE SEED/SODDED, FERTILIZED, MULCHED, WATERED AND MAINTAINED UNTIL GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- C. THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR SHALL USE THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
- D. REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
- E. CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION, THIS IS TO INCLUDE, BUT NOT LIMITED TO ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
- F. HDPE PIPE IN SANDY OR HIGHLY EROSION, OR EXPANSIVE SOILS SHALL BE N-12 WT 18" OR EQUIVALENT WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4" - 48" PIPE SHALL MEET ASTM F2648 (OR AASHTO M252 TYPE S) REQUIREMENTS AND SHALL HAVE A MINIMUM MANNNINGS "n" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATERTIGHT ACCORDING TO ASTM D3212 (OR AASHTO M252, M259) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WE 18" PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
- G. ALL OTHER HDPE PIPE SHALL BE N-12 ST 18" (OR EQUIVALENT WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4" - 48" SHALL MEET ASTM F2648 (OR AASHTO M252 TYPE S OR SP) REQUIREMENTS AND SHALL HAVE A MINIMUM MANNNINGS "n" DESIGN VALUE OF 0.012. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATIONS FOR ADS N-12 ST 18" PIPE FOUND IN THE ADS, INC. HAND BOOK, LATEST EDITION.
- H. IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATION SHALL MEET THE AASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.
- I. STORM SEWER LINES 18"-54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C-76 TYPE III UNLESS OTHERWISE INDICATED. JOINTS SHALL BE WATER TIGHT AND WRAPPED WITH GEOTEXTILE FABRIC, LAPPED 18".
- J. CORRUGATED METAL PIPE, WHERE SPECIFICALLY SPECIFIED ON PLAN, SHALL BE TYPE II OF AASHTO M 36 GALVANIZED WITH TYPE 3 JOINTS.
- K. CONTRACTOR SHALL ESTABLISH GRADES OF FINISH PAVEMENT TO ENSURE PROPER (POSITIVE) DRAINAGE AND PREVENT PUDDLING OF WATER, SPECIALLY IN PEDESTRIAN WALKWAYS. UNPAVED AREAS OF SITE SHALL ALSO BE GRADED FOR POSITIVE DRAINAGE. CONSULT ENGINEER SHOULD THEIR BE CONFLICTS WITH CRITICAL GRADES SHOWN HEREON.
- L. CONTRACTOR SHALL VERIFY ACTUAL FINISH FLOOR ELEVATION AFTER BUILDING SET AND NOTIFY ENGINEER AND PM WITHIN 48 HOURS OF ANY DISCREPANCY.
- M. PIPE JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC (LAPPED 18").
- N. CONTRACTOR TO CONFIRM BUILDING AND CANOPY FOOTER ELEVATIONS PRIOR TO BUILDING BEING SET.

GRADING KEYNOTES

- 18D MATCH EXISTING PAVEMENT ELEVATIONS
- 22S APPROX LOCATION OF EXISTING DRAINAGE PIPE/ STRUCTURE PER CITY OF TALLAHASSEE GIS TO BE REMOVED FOLLOWING INSTALLATION OF PROPOSED DRAINAGE. CONTRACTOR TO COORDINATE WITH CITY PRIOR TO REMOVAL.
- 22R APPROX LOCATION OF EXISTING DRAINAGE PIPE/ STRUCTURE PER CITY OF TALLAHASSEE FIS TO BE REMAIN.
- 51A EXISTING DRAIN STRUCTURE TO REMAIN
- 51B LIMITS OF SAWCUT AND PAVEMENT REMOVAL.

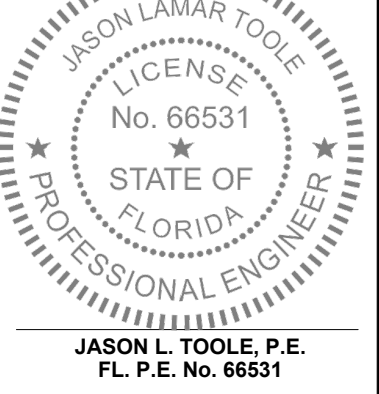
GRADING DETAILS

- 23E COMBINATION INLET
- 28A STORM SEWER TRENCH BEDDING

ALL CASTINGS SHALL BE COATED WITH BLACK ASPHALTIC VARNISH.

SHEET NO.

C-4



Jason L. Toole, P.E.
FL P.E. No. 66531
Professional Engineer
State of Florida

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JOB NO. M3892

J.C.H. DRW

A.M.D. DES

A.M.D. PM

9/19/22 DATE

T.H.H. PRN

REV-4

GRADING PLAN

MURPHY EXPRESS

2785 S MONROE ST

TALLAHASSEE

FLORIDA



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Miami, FL 33135
Ph: 305.274.4805

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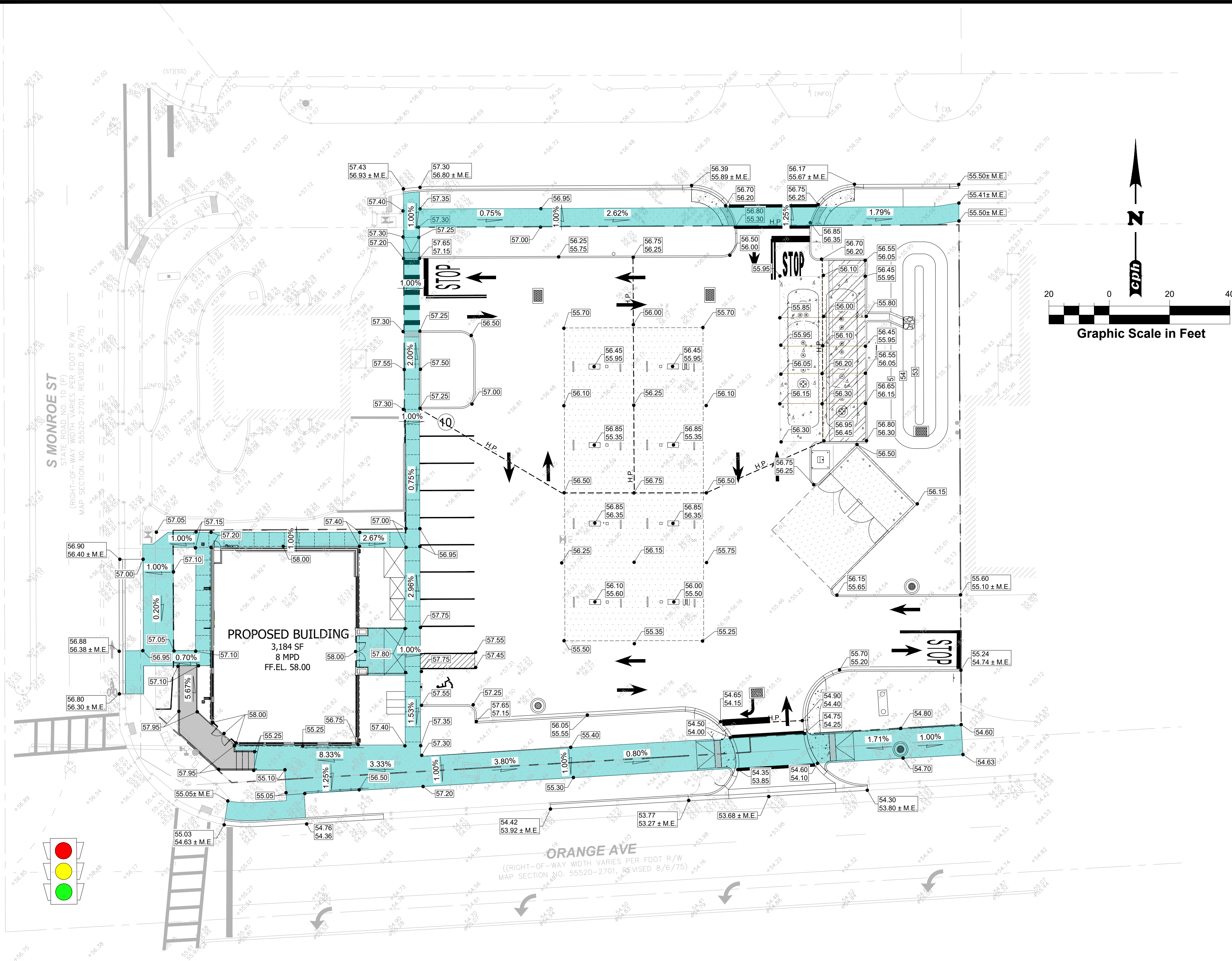
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200 PEACH STREET

EL DORADO, AR 71731-7000

USA

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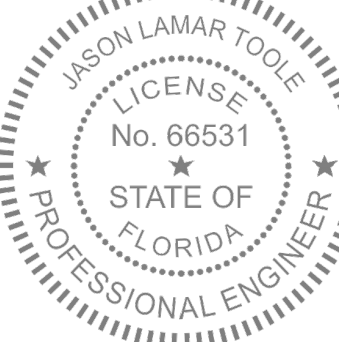


LEGEND

- PROPERTY LINE
- ADA PATH
- PAVEMENT ELEV.

SHEET NO.

C-4.1A



JASON L. TOOLE, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida,
Professional Engineer, License No.
66531. This item has been digitally
signed and sealed by Jason L. Toole
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JOB NO. M3892

JCH

A.M.D.

A.M.D.

T.H.H.

DATE

REV - 4

9/19/22

PRN

DES

PM

DRW

ADA ACCESSIBLE ROUTE

MURPHY EXPRESS

2785 S MONROE ST
TALLAHASSEE FLORIDA



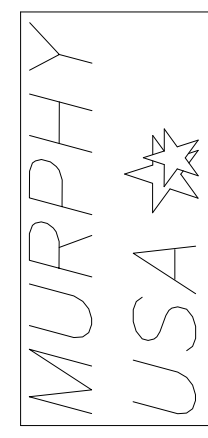
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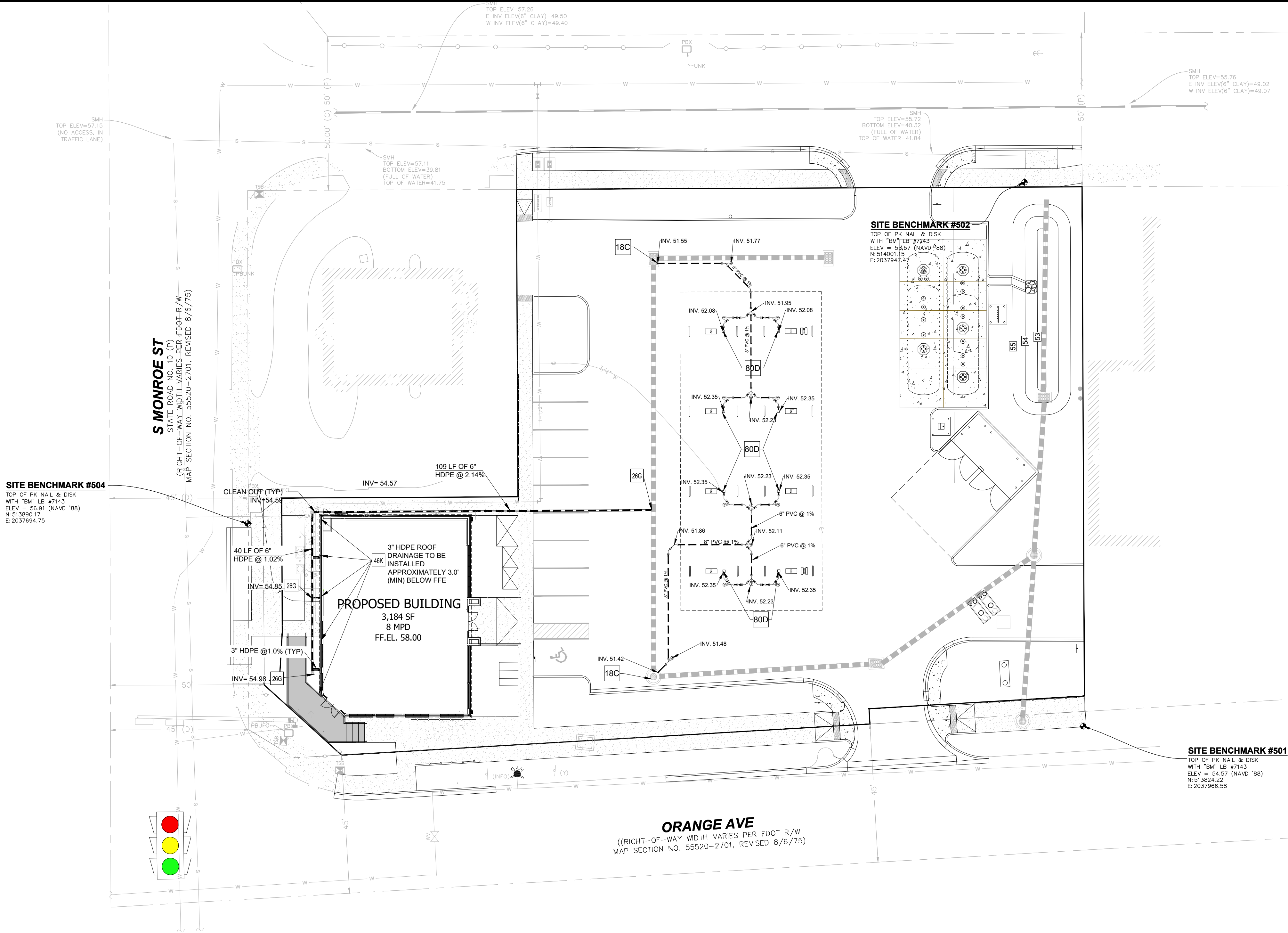
1902 SW 1st Street
Miami, FL 33135
Ph: 305.274.4805

Plans Prepared By:
CPH, LLC
A Full Service A & E Firm

MURPHY OIL USA, INC.



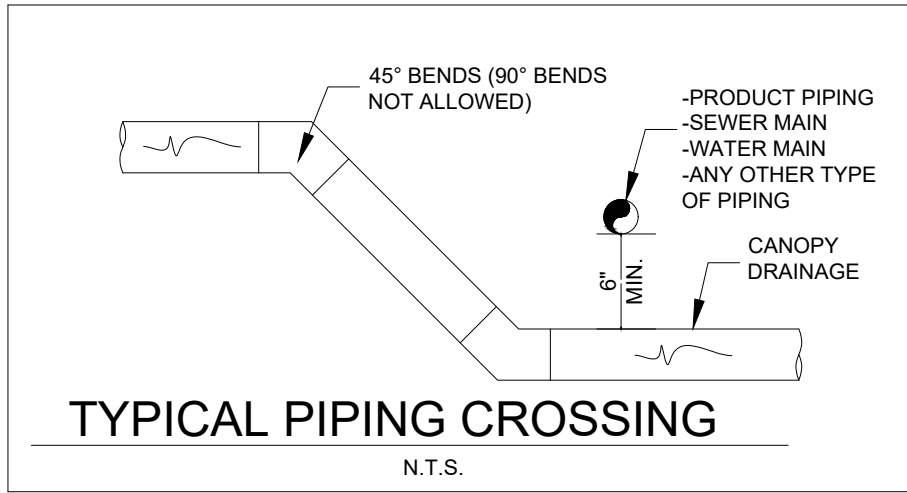
200 PEACH STREET
EL DORADO, AR 71731-7000



CANOPY DRAINAGE DETAILS	
18C	CONNECT TO STORM DRAIN INLET
26G	TEE CONNECTION WITH WATER TIGHT CONNECTION (INSERT A TEE BY ADS OR EQUIVALENT)
48K	ROOF DRAIN DOWNSPOUT CONNECTION
800	DOWNSPOUT COLLECTOR

EXISTING	
● IRON FOUND	CONCRETE SURFACE
■ 1/2" CAPPED REBAR SET	LIGHT POLE
■ CONCRETE MONUMENT FOUND	○ SANITARY SEWER CLEANOUT
⊕ NAIL AND WASHER SET	○ SANITARY SEWER MANHOLE
▲ CALCULATED POINT-NOT MONUMENTED	SS— SANITARY SEWER LINE
() DEED and/or PLAT CALL	--- F/O--- BURIED FIBER OPTIC LINE
P.O.C. POINT OF COMMENCEMENT	□ FIBER OPTIC BOX
P.O.B. POINT OF BEGINNING	— W— WATER LINE
R.O.W. RIGHT-OF-WAY	W— WATER VALVE
— WOODEN PRIVACY FENCE	W— WATER METER
MINIMUM BUILDING LINE	○ FIRE HYDRANT
● UTILITY POLE W/ GUY WIRE	● BOLLARD
— P— OVERHEAD POWER LINE	
— BP— BURIED POWER LINE	
— S— SIGN	

PROPOSED	
— GB—	BOUNDARY LINE
— 20—	GRADE BREAK
XX.XX	CONTOUR ELEVATIONS
	SPOT ELEVATIONS:
	XX.XX TC = TOP OF CURB
	XX.XX G = GUTTER
	XX.XX TOI = TOP OF ISLAND
	XX.XX = FINISHED GRADE
	DRAINAGE SLOPE AND DIRECTION
— CF—	CONSTRUCTION FENCE (SEE DETAIL SHEETS)
	PROPOSED STORM PIPE



- GENERAL GRADING NOTES**
- PRIOR TO INSTALLATION OF STORM OR SANITARY SEWER, WATER MAIN, OR ANY OTHER UTILITIES, THE CONTRACTOR SHALL EXCAVATE, VERIFY, AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSING AND INFORM THE OWNER AND THE ENGINEER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLAN PRIOR TO CONSTRUCTION. NOTIFICATION SHALL BE MADE A MINIMUM OF 72 HOURS PRIOR TO CONSTRUCTION, THE ENGINEER AND ITS CLIENTS SHALL BE HELD HARMLESS IN THE EVENT THAT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
 - ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND GROUND COVER ESTABLISHED. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE STABILIZED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.
 - REFER TO GEOTECHNICAL REPORT FOR SPECIFIC SITE SOIL CONDITIONS AND CONSIDERATIONS.
 - CONTRACTOR SHALL COMPLY COMPLETELY WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS IS TO INCLUDE, BUT NOT LIMITED FOR ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH PERFORMANCE CRITERIA AS REQUIRED BY OSHA.
 - ALL HDPE PIPE IN SANDY OR HIGHLY EROSION, OR EXPANSIVE SOILS SHALL BE N-12 WT IB (OR EQUIVALENT WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4" 48" PIPE SHALL MEET ASTM F2648 (OR AASHTO M252 TYPE S) REQUIREMENTS AND SHALL HAVE A MINIMUM MANNINGS "n" DESIGN VALUE OF 0.012. JOINTS SHALL BE WATERTIGHT ACCORDING TO ASTM D3212 (OR AASHTO M252, M294) REQUIREMENTS. GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATION FOR ADS N-12 WE IB PIPE FOUND IN THE ADS, INC. DRAINAGE HANDBOOK, LATEST EDITION.
 - ALL OTHER HDPE PIPE SHALL BE N-12 ST IB (OR EQUIVALENT WITH SMOOTH INTERIOR AND ANNUAL EXTERIOR CORRUGATIONS. 4" 48" SHALL MEET ASTM F2648 (OR AASHTO M252 TYPE S OR SP) REQUIREMENTS AND SHALL HAVE A MINIMUM MANNINGS "n" DESIGN VALUE OF 0.012. JOINT PERFORMANCE, FITTINGS, MATERIAL PROPERTIES AND INSTALLATION SHALL BE DONE PER THE COMPLETE ADS SPECIFICATIONS FOR ADS N-12 ST IB PIPE FOUND IN THE ADS, INC. HANDBOOK, LATEST EDITION.
 - IF USING HDPE PERFORATED PIPE FOR SUBSURFACE DRAINAGE AND DETENTION/RETENTION SYSTEMS, THE PERFORATION SHALL MEET THE AASHTO CLASS II STANDARD PERFORATION PATTERN REQUIREMENTS.
 - STORM SEWER LINES 18"-54" DIAMETER ARE TO BE REINFORCED CONCRETE PIPE ACCORDING TO ASTM C-76 (WATERTIGHT) UNLESS OTHERWISE INDICATED.
 - CORRUGATED METAL PIPE, WHERE SPECIFICALLY SPECIFIED ON PLAN, SHALL BE TYPE II OF AASHTO M 36 GALVANIZED WITH TYPE 3 JOINTS.
 - CONTRACTOR SHALL ESTABLISH GRADES OF FINISH PAVEMENT TO ENSURE PROPER (POSITIVE) DRAINAGE AND PREVENT PUDDLING OF WATER, SPECIALLY IN PEDESTRIAN WALKWAYS. UNPAVED AREAS OF SITE SHALL ALSO BE GRADED FOR POSITIVE DRAINAGE. CONSULT ENGINEER SHOULD THEIR BE CONFLICTS WITH CRITICAL GRADES SHOWN HEREON.
 - CONTRACTOR SHALL VERIFY ACTUAL FINISH FLOOR ELEVATION AFTER BUILDING SET AND NOTIFY ENGINEER AND PM WITHIN 48 HOURS OF ANY DISCREPANCY.
 - PIPE JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC (LAPPED 18").
 - CONTRACTOR TO CONFIRM BUILDING AND CANOPY FOOTER ELEVATIONS PRIOR TO BUILDING BEING SET.

Sunshine811

Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

Check positive response codes before you dig!

ALL CASTINGS SHALL BE COATED WITH BLACK ASPHALTIC VARNISH.

ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

SHEET NO. **C-4.2**

JASON LAMAR TOOLE
LICENSE
No. 66531
STATE OF FLORIDA
PROFESSIONAL ENGINEER

JASON L. TOOLE, P.E.
FL P.E. No. 66531

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

CANOPY BUILDING DRAINAGE PLAN

MURPHY EXPRESS
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cph

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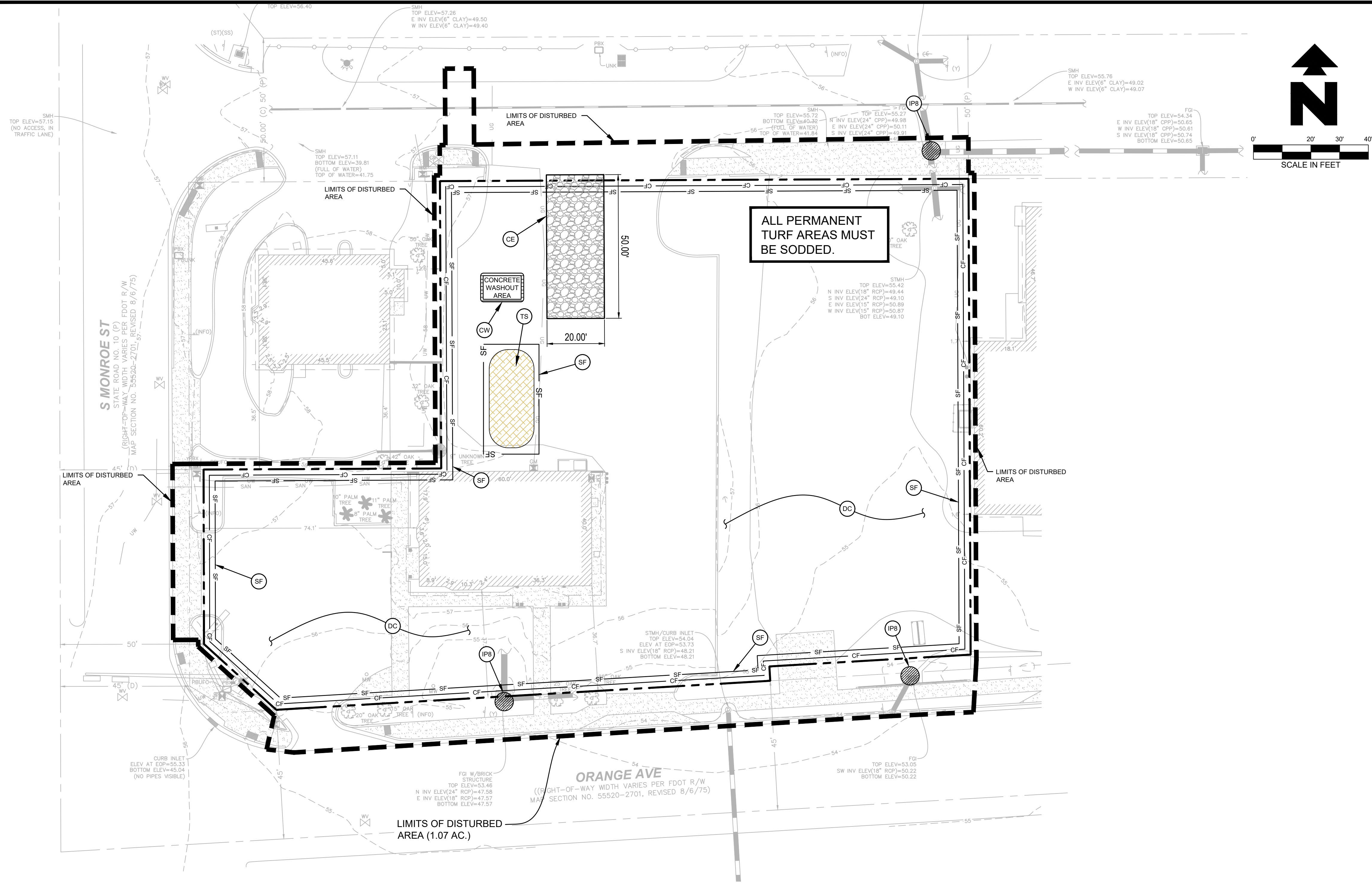
Plans Prepared By:
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MURPHY
USA

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J:\M38282\ChildDWG_Current_Plan_Set\Working\C-5.0 Erosion Control PH.dwg Aug 08, 2025 - 9:46am kupp



EXISTING	
● IRON FOUND	CONCRETE SURFACE
■ 1/2" CAPPED REBAR SET	● LIGHT POLE
■ CONCRETE MONUMENT FOUND	● SANITARY SEWER CLEANOUT
▲ NAIL AND WASHER SET	● SANITARY SEWER MANHOLE
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() DEED and/or PLAT CALL	● BURIED FIBER OPTIC LINE
P.O.C. POINT OF COMMENCEMENT	● FIBER OPTIC BOX
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R.O.W. RIGHT-OF-WAY	● WATER VALVE
—/— WOODEN PRIVACY FENCE	● WATER METER
M.B.L. MINIMUM BUILDING LINE	● FIRE HYDRANT
● UTILITY POLE W/ GUY WIRE	● BOLLARD
● UTILITY POLE W/O GUY WIRE	
—BP— BURIED POWER LINE	
—□— SIGN	

PROPOSED	
— — — — —	BOUNDARY LINE
—XX—	CONTOUR ELEVATIONS
—CF—	CONSTRUCTION FENCE (SEE DETAIL SHEETS)
— — — — —	LIMIT OF DISTURBED AREA
15	URBAN LAND, 0 TO 2 PERCENT SLOPES

PROJECT INFORMATION

RECEIVING WATER IS UNAMED LOCAL DEPRESSION. DEPRESSION EVENTUALLY CONNECTS TO _____ MILES TO _____ OF PROJECT SITE.

PROPOSED PROJECT SITE MADE UP OF A SINGLE COMMERCIAL LOT. STORM RUN-OFF FROM SITE WILL PIPE INTO ON SITE DETENTION SYSTEM WHICH WILL ACCOMMODATE STORM RUN-OFF FOR THE GAS STATION LOT.

PROPOSED PROJECT IS CONSTRUCTING A GAS STATION CONSISTING OF _____ S.F. CONVENIENT STORE WITH _____ PUMP ISLANDS AND ASSOCIATED PARKING AREA.

ANTICIPATED CONSTRUCTION START DATE IS _____, 20____ AND COMPLETION DATE IS _____, 20____.

CONTRACTOR TO TAKE APPROPRIATE MEASURES TO KEEP SEDIMENT FROM ESCAPING SITE AND ALL ACCUMULATED SEDIMENT SHALL BE CLEANED OUT AND REMOVED FROM SITE.

DOWNSTREAM CONDITION WILL NOT BE NEGATIVELY AFFECTED BY PROPOSED DEVELOPMENT.

EROSION DETAILS - SEE DETAIL SHEET C-5.2	
■	CE STABILIZED CONSTRUCTION ACCESS
—SF—	SF SEDIMENTATION / SILT FENCE WITH WIRE SUPPORT
●	DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, DC SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)
●	SS SILT SACK
■	TS TEMPORARY TOPSOIL STOCKPILE
●	IP8 TEMPORARY GRAVEL INLET SEDIMENT FILTER

SITE SLOPES	
ALS	- ALBANY LOAMY SAND 0% TO 2% SLOPE

- A. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AND PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN AND LOCAL/STATE AUTHORITIES. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- B. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- C. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- D. CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- E. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWNSTREAM SIDES AS NEEDED.
- F. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- G. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- H. DUST ON THE SITE SHALL BE MINIMIZED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- I. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- J. ALL DENUDDED/BARE AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS.
- K. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEEDED, SODDED, AND/OR VEGETATED IMMEDIATELY OR STABILIZED AS SHOWN ON PLANS, NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- L. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
- M. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- N. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- O. ON-SITE AND OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- P. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- Q. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- R. GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.

- BMP MAINTENANCE NOTES**
- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT AND SHOULD BE CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- SILT DIKE PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR SHALL BE REPLACED IF THEY SHOW SIGNS OF DETEIORATION.
 - ALL SEEDED AREAS SHALL BE CHECK REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEED AS NEEDED. MULCH SHALL BE UTILIZED WHERE EROSION OF DENUDED AREAS IS ANTICIPATED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - THE CONSTRUCTION ENTRANCES 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 OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND. PUBLIC RIGHT-OF-WAYS WILL BE CHECKED DAILY FOR MUD, IF MUD IS FOUND IT WILL BE CLEANED FROM PUBLIC RIGHT-OF-WAYS ON A DAILY BASIS.
 - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 - IF THE STONES IN THE GRAVEL INLET SEDIMENTS FILTERS BECOME CLOGGED WITH SEDIMENT AND CAPACITY IS REDUCED BY HALF, THE STONES MUST BE PULLED AWAY, CLEANED AND REPLACE.
 - UPON SOLIDIFYING, CONCRETE SHALL BE REMOVED FROM WASHOUT AREA AND PROPERLY DISPOSED OF TO PREVENT RUNOFF.

- SEQUENCE OF CONSTRUCTION**
- PHASE I**
- INSTALL STABILIZED CONSTRUCTION ENTRANCES.
 - PREPARE TEMPORARY PARKING AND STORAGE AREA.
 - CONSTRUCT THE SILT FENCES ON THE SITE.
 - INSTALL ALL PERIMETER SEDIMENT MEASURES.
 - INSTALL ALL TEMPORARY EROSION & SEDIMENT CONTROLS AS NEEDED.
 - CLEAR AND GRUB THE SITE.
 - BEGIN GRADING THE SITE.
- PHASE II**
- START CONSTRUCTION OF BUILDING PAD, STRUCTURES, AND OFF-SITE IMPROVEMENTS.
 - TEMPORARILY SEED DENUDED AREAS.
 - INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
 - INSTALL INLET/FLUME PROTECTION DEVICES.
 - INSTALL RIP RAP AROUND OUTLET STRUCTURES.
 - PREPARE SITE FOR PAVING.
 - PAVE SITE.
 - COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
 - REMOVE EROSION AND TEMPORARY SEDIMENT CONTROL DEVICES AFTER FINAL STABILIZATION IS ACHIEVED.

DISTURBED AREA:

1. TOTAL SITE AREA = 0.88 ACS.
2. DISTURBED AREA = 1.07 ACS.

THE LOCATION OF THE SILT FENCE AND CONSTRUCTION FENCE ON THE DRAWINGS IS FOR GRAPHICAL REPRESENTATION ONLY. THE CONTRACTOR IS TO ENSURE THAT THE SILT FENCE AND CONSTRUCTION FENCE ENCOMPASSES THE ENTIRE WORK AREA.

ALL EROSION CONTROL MEASURES SHALL BE IN PLACE AS REQUIRED BY THE ENGINEER, PLANS, AND CITY REPRESENTATIVE. SILTATION CONTROL MEASURES SHALL BE INSPECTED PER THE NPDES PERMIT REQUIREMENTS. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY AND NO FURTHER WORK WILL PROCEED UNTIL SAID DEFICIENCIES ARE CORRECTED TO THE CITY ENGINEER'S APPROVAL.

EROSION CONTROL AND TREE PROTECTION MEASURES SHALL BE INSTALLED PRIOR TO ANY OTHER CONSTRUCTION ACTIVITY AND MAINTAINED UNTIL PERMANENT GROUND COVER IS ESTABLISHED.

"THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH 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."

SHEET NO.

C-5.0

JASON LAMAR TOOLE
LICENSE
No. 66531
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

Jason L. Toole, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida,
Professional Engineer, License No.
66531. This item has been digitally
signed and sealed by Jason L. Toole
on the date indicated here. Printed
copies of this document are not
considered signed and sealed and
the signature must be verified on
any electronic copies

EROSION CONTROL PH.I

MURPHY EXPRESS

2785 S MONROE ST

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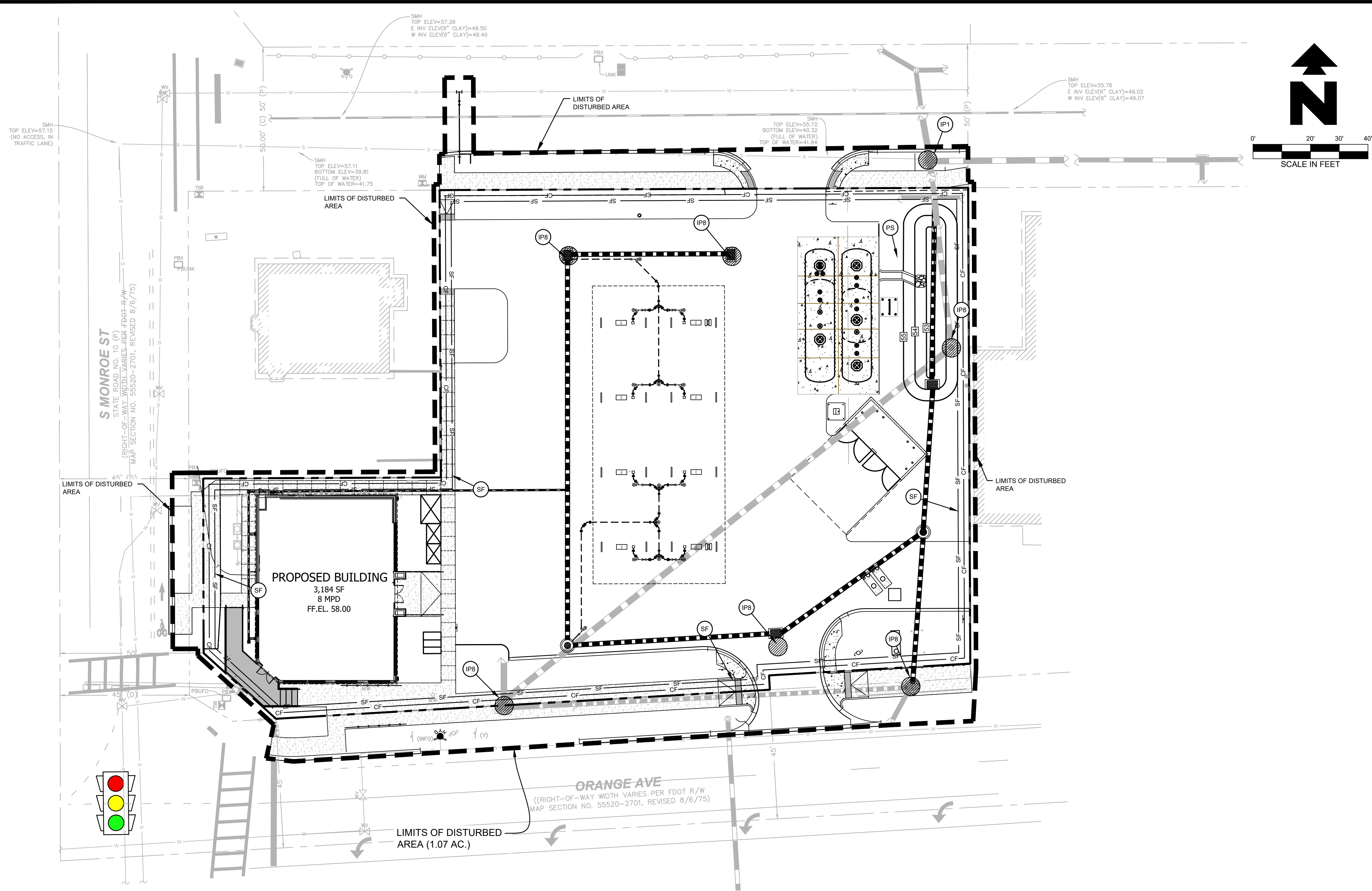
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○ DEAD 4x4 PLAT CALL	— F/O — BURIED FIBER OPTIC LINE
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PROPOSED	
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— XX —	CONTOUR ELEVATIONS
— CF —	CONSTRUCTION FENCE (SEE DETAIL SHEETS)
— — — — —	LIMIT OF DISTURBED AREA
○ 15	URBAN LAND, 0 TO 2 PERCENT SLOPES

PROJECT INFORMATION

RECEIVING WATER IS UNAMED LOCAL DEPRESSION. DEPRESSION EVENTUALLY CONNECTS TO ± _____ MILES TO _____ OF PROJECT SITE.

PROPOSED PROJECT SITE MADE UP OF A SINGLE COMMERCIAL LOT. STORM RUN-OFF FROM SITE WILL PIPE INTO ON SITE DETENTION SYSTEM WHICH WILL ACCOMMODATE STORM RUN-OFF FOR THE GAS STATION LOT.

PROPOSED PROJECT IS CONSTRUCTING A GAS STATION CONSISTING OF _____ S.F. CONVENIENT STORE WITH _____ PUMP ISLANDS AND ASSOCIATED PARKING AREA.

ANTICIPATED CONSTRUCTION START DATE IS _____, 20____ AND COMPLETION DATE IS _____, 20____.

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EROSION DETAILS - SEE DETAIL SHEET C-5.2	
CE STABILIZED CONSTRUCTION ACCESS	SF SF SEDIMENTATION / SILT FENCE WITH WIRE SUPPORT
DC DUST CONTROL (USING: PHASING OF THE PROJECT, MULCH, DC SPRINKLING WATER, SPRAY-ON-ADHESIVE, CALCIUM CHLORIDE, BARRIERS, ETC.)	SS SILT SACK
TS TEMPORARY TOPSOIL STOCKPILE	IPB TEMPORARY GRAVEL INLET SEDIMENT FILTER
PS PERMANENT STABILIZATION	

SITE SOILS	
URB	- URBAN LAND 0% TO 2% SLOPE

DISTURBED AREA:	
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GENERAL EROSION NOTES

- CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AND PRACTICES AS REQUIRED BY THIS STORM WATER POLLUTION PREVENTION PLAN AND LOCAL/STATE AUTHORITIES. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS MUST BE MAINTAINED ON SITE AT ALL TIMES.
- CONTRACTOR TO LIMIT DISTURBANCE OF SITE IN STRICT ACCORDANCE WITH EROSION CONTROL SEQUENCING SHOWN ON THIS PLAN, OR AS REQUIRED BY THE APPLICABLE GENERAL PERMIT. NO UNNECESSARY OR IMPROPERLY SEQUENCED CLEARING AND/OR GRADING SHALL BE PERMITTED.
- GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES. CONTRACTOR SHALL CONSTRUCT TEMPORARY BERM ON DOWNSTREAM SIDES AS NEEDED.
- ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
- SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN-UP FUEL OR CHEMICAL SPILLS AND LEAKS.
- DUST ON THE SITE SHALL BE MINIMIZED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORMWATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
- ALL DENUDE/DARE AREAS THAT WILL BE INACTIVE FOR 14 DAYS OR MORE, MUST BE STABILIZED IMMEDIATELY UPON COMPLETION OF MOST RECENT GRADING ACTIVITY, WITH THE USE OF FAST-GERMINATING ANNUAL GRASS/GRAIN VARIETIES, STRAWHAY MULCH, WOOD CELLULOSE FIBERS, TACKIFIERS, NETTING OR BLANKETS.
- DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY STABILIZED AS SHOWN ON THE PLANS. THESE AREAS SHALL BE SEED, SODDED, AND/OR VEGETATED IMMEDIATELY, OR STABILIZED AS SHOWN ON PLANS, NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
- IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO PREVENT TRACKING OF DIRT, DUST OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE. ONLY USE INGRESS/EGRESS LOCATIONS AS PROVIDED.
- ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
- ON-SITE AND OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
- SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
- DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION AND SEDIMENT CONTROL MEASURES (SILT FENCES, ETC.) TO PREVENT EROSION AND POLLUTANT DISCHARGE.
- GENERAL CONTRACTOR IS TO DESIGNATE/IDENTIFY AREAS ON THE SITE MAPS, INSIDE OF THE LIMITS OF DISTURBANCE, FOR WASTE DISPOSAL AND DELIVERY AND MATERIAL STORAGE.

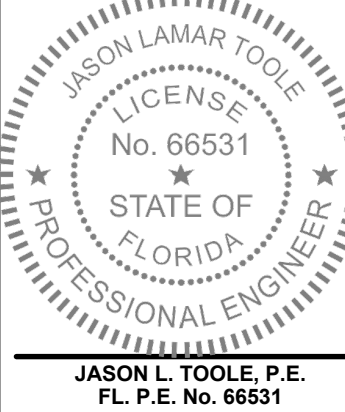
BMP MAINTENANCE NOTES

- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A RAINFALL EVENT AND SHOULD BE CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- SILT DIKE PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING OR SHALL BE REPLACED IF THEY SHOW SIGNS OF DETERIORATION.
 - ALL SEEDED AREAS SHALL BE CHECK REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED AND RESEED AS NEEDED. MULCH SHALL BE UTILIZED WHERE EROSION OF DENUDE AREAS IS ANTICIPATED.
 - SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.
 - THE CONSTRUCTION ENTRANCES 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 OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND. PUBLIC RIGHT-OF-WAYS WILL BE CHECKED DAILY FOR MUD. IF MUD IS FOUND IT WILL BE CLEANED FROM PUBLIC RIGHT-OF-WAYS ON A DAILY BASIS.
 - THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
 - IF THE STONES IN THE GRAVEL INLET SEDIMENTS FILTERS BECOME CLOGGED WITH SEDIMENT AND CAPACITY IS REDUCED BY HALF, THE STONES MUST BE PULLED AWAY, CLEANED AND REPLACE.
 - UPON SOLIDIFYING, CONCRETE SHALL BE REMOVED FROM WASHOUT AREA AND PROPERLY DISPOSED OF TO PREVENT RUNOFF.

SEQUENCE OF CONSTRUCTION

- PHASE I**
- INSTALL STABILIZED CONSTRUCTION ENTRANCES.
 - PREPARE TEMPORARY PARKING AND STORAGE AREA.
 - CONSTRUCT THE SILT FENCES ON THE SITE.
 - INSTALL ALL PERIMETER SEDIMENT MEASURES.
 - INSTALL ALL TEMPORARY EROSION & SEDIMENT CONTROLS AS NEEDED.
 - CLEAR AND GRUB THE SITE.
 - BEGIN GRADING THE SITE.
- PHASE II**
- START CONSTRUCTION OF BUILDING PAD, STRUCTURES, AND OFF-SITE IMPROVEMENTS.
 - TEMPORARILY SEED DENUDE AREAS.
 - INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS, CURBS AND GUTTERS.
 - INSTALL INLET/FLUME PROTECTION DEVICES.
 - INSTALL RIP RAP AROUND OUTLET STRUCTURES.
 - PREPARE SITE FOR PAVING.
 - PAVE SITE.
 - COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
 - REMOVE EROSION AND TEMPORARY SEDIMENT CONTROL DEVICES AFTER FINAL STABILIZATION IS ACHIEVED.

SHEET NO. C-5.1



Jason L. Toole, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

EROSION CONTROL PH. II
MURPHY EXPRESS
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TALLAHASSEE FLORIDA

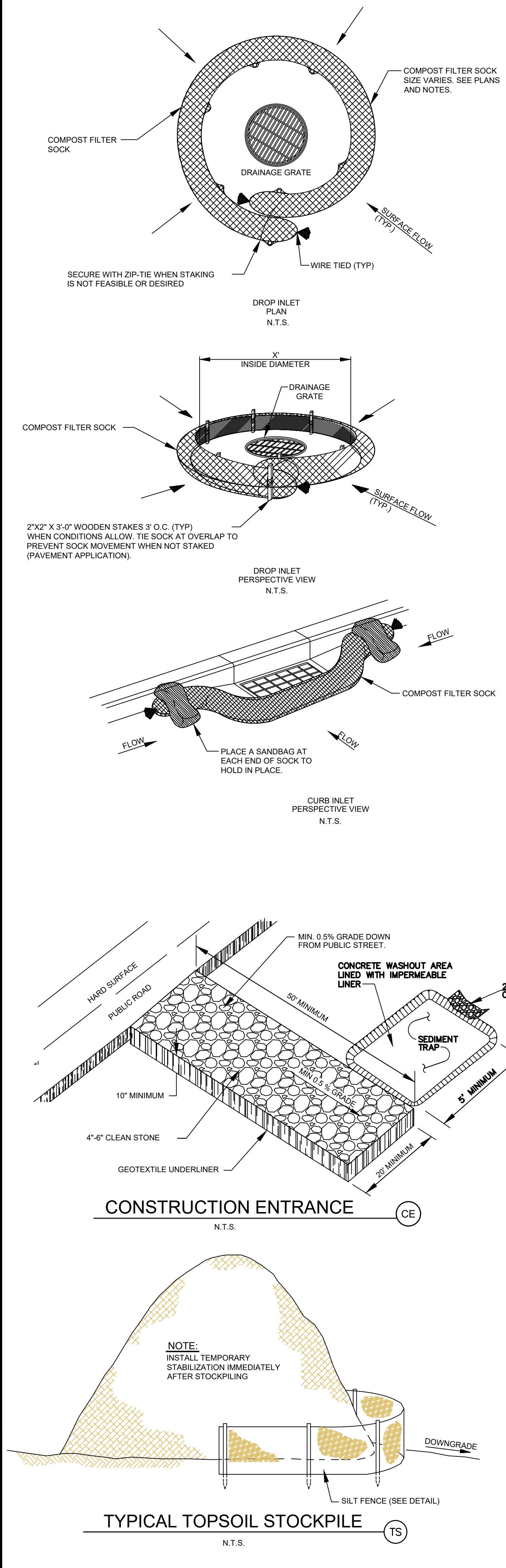


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J:\M3892\Civil\DWG, Current, Plan, SoilWorking\C-05.2 Erosion Control Details.dwg Aug. 06, 2026 - 9:44am dresae



USAGE NOTES:

- ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE FILTER SOCK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
- OVERLAP ENDS OF SOCK PER MANUFACTURERS RECOMMENDATIONS. (1" MIN. 3" MAX.)
- USE 8" TO 12" DIA. SOCK ON CURBSIDE IN TRAFFIC AREAS.
- USE 12" - 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.

DESIGN CRITERIA:

COMPOST FILTER SOCKS ARE DESIGNED TO RETAIN SEDIMENT TRANSPORTED IN SHEET FLOW FROM DISTURBED AREAS. COMPOST FILTER SOCKS PERFORM THE SAME FUNCTION AS SILT FENCE, ALLOW A HIGHER FLOW RATE, AND ARE USUALLY FASTER AND CHEAPER TO INSTALL. WHERE ALL RUNOFF IS TO BE TREATED BY THE COMPOST FILTER SOCK THE MAXIMUM SLOPE LENGTH BEHIND THE COMPOST FILTER SOCK SHALL NOT EXCEED THOSE SHOWN IN TABLE 1. THE DRAINAGE AREA SHALL NOT EXCEED 1/4 ACRE FOR EVERY 100 FT OF COMPOST FILTER SOCK.

THE SEDIMENT AND POLLUTANT REMOVAL PROCESS CHARACTERISTIC TO COMPOST FILTER SOCKS COMBINES BOTH FILTERING AND DEPOSITION FROM SETTLING SOLIDS. THIS IS DIFFERENT THAN METHODS THAT RELY ON PONDING FOR DEPOSITION OF SOLIDS FOR SEDIMENT CONTROL, SUCH AS SILT FENCE. PONDING OCCURS WHEN WATER FLOWING TO THE COMPOST FILTER SOCK ACCUMULATES FASTER THAN THE HYDRAULIC FLOW THROUGH RATE OF THE COMPOST FILTER SOCK. HYDRAULIC FLOW THROUGH RATES FOR COMPOST FILTER SOCKS ARE 50% GREATER THAN SILT FENCE FILTER FABRIC. GREATER HYDRAULIC FLOW-THROUGH RATES REDUCE PONDING. COMPOST FILTER SOCK MESH NETTING SHALL MEET THE NETTING SPECIFICATION IN TABLE 2. COMPOST FILTER SOCKS SHALL MEET THE SPECIFICATIONS IN TABLE 3. COMPOST USED IN COMPOST FILTER SOCKS SHALL MEET THE SPECIFICATION DESCRIBED UNDER COMPOST FILTER MEDIA SPECIFICATIONS.

A 12 INCH DIAMETER COMPOST FILTER SOCK SHALL BE USED ON DEVELOPMENTS WHERE THE LIFE OF THE PROJECT IS GREATER THAN OR EQUAL TO SIX MONTHS. A 12 INCH DIAMETER COMPOST FILTER SOCK MAY ALSO BE USED ON MINOR PROJECTS, SUCH AS RESIDENTIAL HOME SITES OR SMALL COMMERCIAL DEVELOPMENTS.

TABLE 1	
Land Slope	Maximum Slope Length Above Compost Filter Sock
Percent	Feet
<2	100
2 to 5	75
5 to 10	50
10 to 20	25
>20*	15

*In areas where the slope is greater than 20% , a flat area length of 10 ft between the toe of the slope to the compost filter sock should be provided.

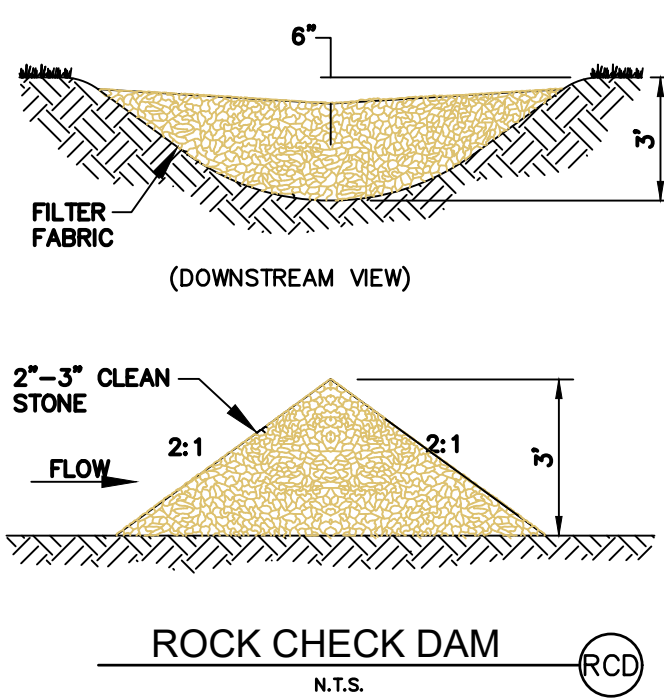
TABLE 2		
Material Type	Multi-Filament Polypropylene	Multi-Filament Polypropylene
Material Characteristic	Photodegradable	Photodegradable
Mesh Opening	3/8 in (10mm)	1/8 in (3mm)
"Tensile Strength (ASTM 5035-95)"	44 psi (3.09 kg/cm2)	202 psi (14.2 kg/cm2)*
% Original Strength from Ultraviolet Exposure (ASTM G-155)	100% at 1000 hr	100% at 1000 hr

TABLE 3	
	12 in (300mm) Diameter
Effective Circumference	38 in (960mm)
Density (when filled)	32 lbs/ft (50 kg/m)
Air Space	20%
Hydraulic Flow Through Rate	11.3 gpm/ft (141 L/min/m)
P Factor (RUSLE)	0.1-0.32

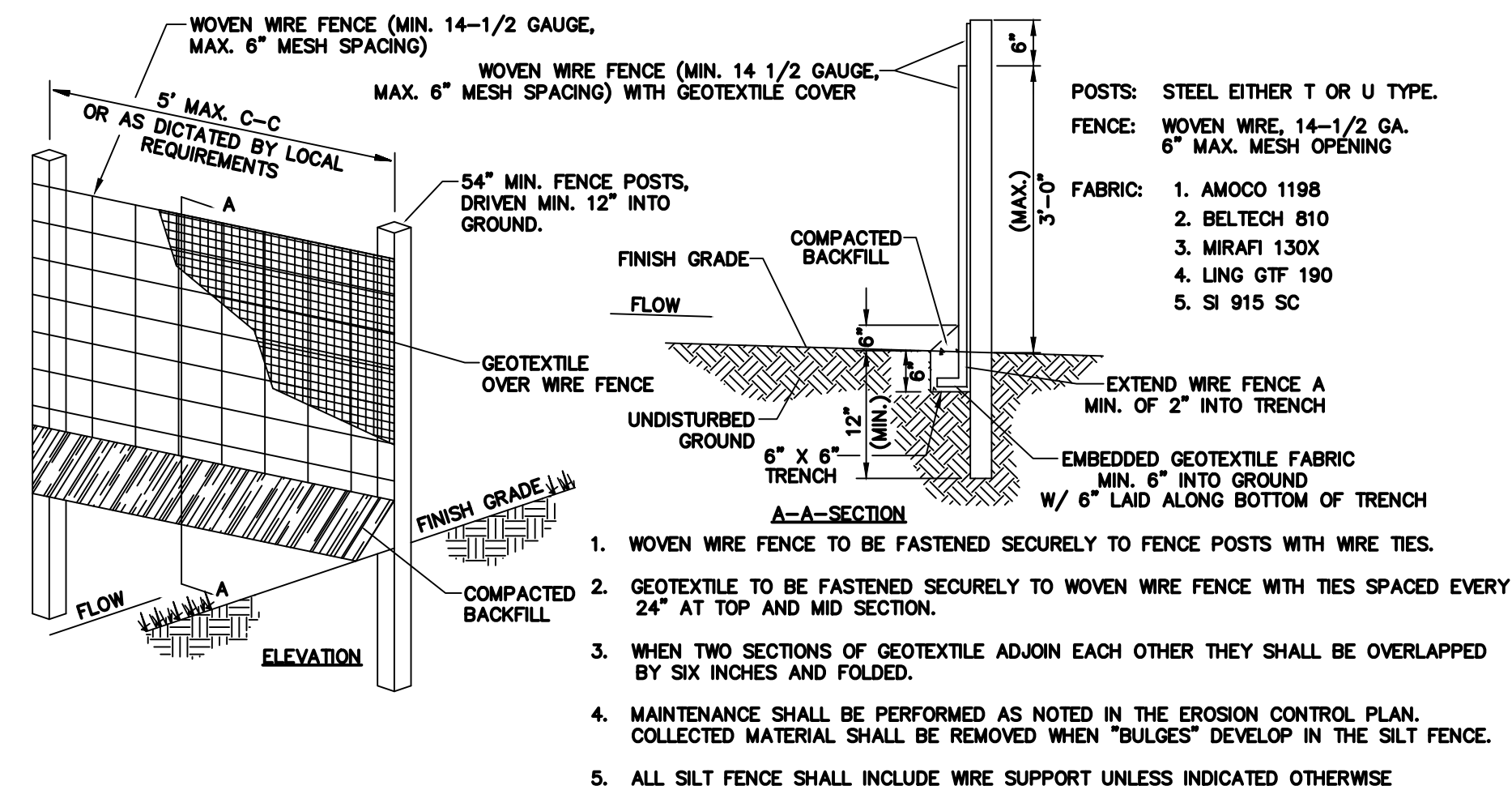
COMPOST FILTER SOCK

N.T.S.

CFS



RCD



SF

COMPOST FILTER MEDIA SPECIFICATIONS

COMPOST USED FOR COMPOST FILTER SOCK FILTER MATERIAL (FILTER MEDIA) SHALL BE WEED FREE AND DERIVED FROM A WELL-DECOMPOSED SOURCE OF ORGANIC MATTER. THE COMPOST SHALL BE PRODUCED USING AN AEROBIC COMPOSTING PROCESS MEETING CFR 503 REGULATIONS INCLUDING TIME AND TEMPERATURE DATA. THE COMPOST SHALL BE FREE OF ANY REFUSE, CONTAMINANTS OR OTHER MATERIALS TOXIC TO PLANT GROWTH. NON-COMPOSTED PRODUCTS WILL NOT BE ACCEPTED. TEST METHODS FOR THE ITEMS BELOW SHOULD FOLLOW US COMPOSTING COUNCIL TEST METHODS FOR THE EXAMINATION OF COMPOSTING AND COMPOST GUIDELINES FOR LABORATORY PROCEDURES:

- PH - 5.0-8.0 IN ACCORDANCE WITH TMECC 04.11-A, "ELECTROMETRIC PH DETERMINATIONS FOR COMPOST"
- PARTICLE SIZE - 99% PASSING A 2 IN (50MM) SIEVE AND A MAXIMUM OF 40% PASSING A 3/8 IN (9.5MM) SIEVE. IN ACCORDANCE WITH TMECC 02.02-B, "SAMPLE SIEVING FOR AGGREGATE SIZE CLASSIFICATION" (NOTE: IN THE FIELD, PRODUCT COMMONLY IS BETWEEN 1/2 IN (12.5MM) AND 2 IN (50MM) PARTICLE SIZE.)
- MOISTURE CONTENT OF LESS THAN 60% IN ACCORDANCE WITH STANDARDIZED TEST METHODS FOR MOISTURE DETERMINATION.
- MATERIAL SHALL BE RELATIVELY FREE (<1% BY DRY WEIGHT) OF INERT OR FOREIGN MAN MADE MATERIALS.
- A SAMPLE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO BEING USED AND MUST COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

CONSTRUCTION SPECIFICATIONS

THE COMPOST FILTER SOCK SHALL BE INSTALLED ACCORDING TO THIS SPECIFICATION, AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

- COMPOST FILTER SOCKS SHOULD BE INSTALLED PARALLEL TO THE BASE OF THE SLOPE OR OTHER DISTURBED AREA. IN EXTREME CONDITIONS (I.E., 2:1 SLOPES), A SECOND COMPOST FILTER SOCK SHALL BE CONSTRUCTED AT THE TOP OF THE SLOPE.
- STAKES SHALL BE INSTALLED THROUGH THE MIDDLE OF THE COMPOST

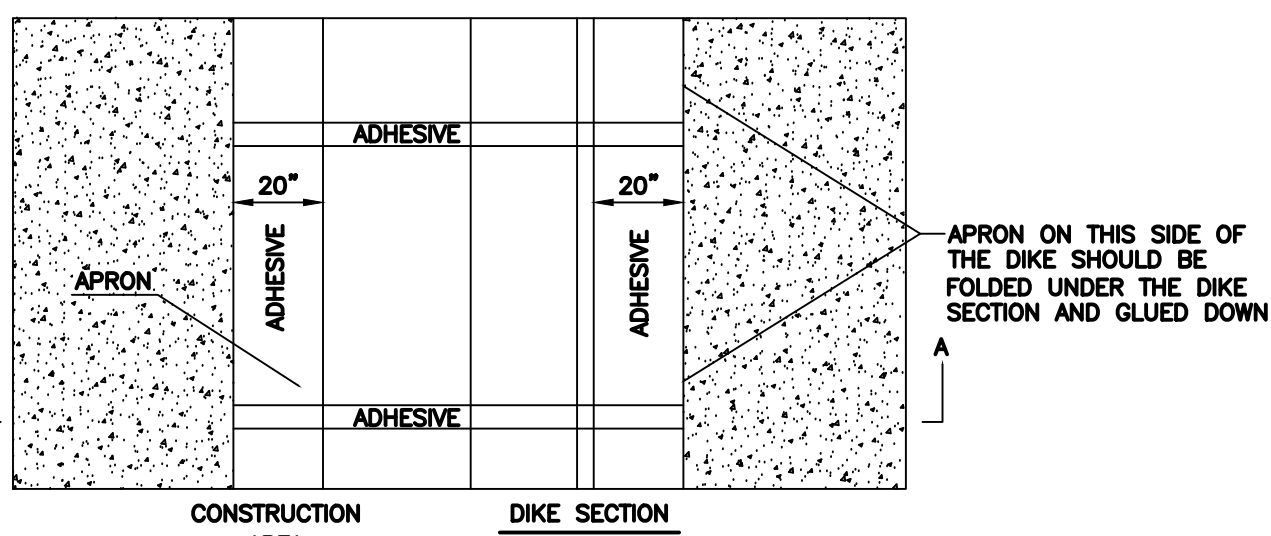
FILTER SOCK ON 10 FT (3M) CENTERS, USING 2 IN (50MM) BY 2 IN (50MM) 8Y 3 FT (1M) WOODEN STAKES. IN THE EVENT STAKING IS NOT POSSIBLE, I.E., WHEN COMPOST FILTER SOCKS ARE USED ON PAVEMENT, HEAVY CONCRETE BLOCKS SHALL BE USED BEHIND THE COMPOST FILTER SOCKS TO HELP STABILIZE DURING RAINFALL/RUNOFF EVENTS.

- STAKING DEPTH FOR SAND AND SILT LOAM SOILS SHALL BE 12 IN (300MM), AND 8 IN (200MM) FOR CLAY SOILS.
- LOOSE COMPOST MAY BE BACKFILLED ALONG THE UPSLOPE SIDE OF THE COMPOST FILTER SOCK, FILLING THE SEAM BETWEEN THE SOIL SURFACE AND THE DEVICE, IMPROVING FILTRATION AND SEDIMENT RETENTION.

- IF THE COMPOST FILTER SOCK IS TO BE LEFT AS A PERMANENT FILTER OR PART OF THE NATURAL LANDSCAPE, IT MAY BE SEEDED AT TIME OF INSTALLATION FOR ESTABLISHMENT OF PERMANENT VEGETATION. THE ENGINEER WILL SPECIFY SEED REQUIREMENTS.
- COMPOST FILTER SOCKS ARE NOT TO BE USED IN PERENNIAL, EPHEMERAL, OR INTERMITTENT STREAMS.

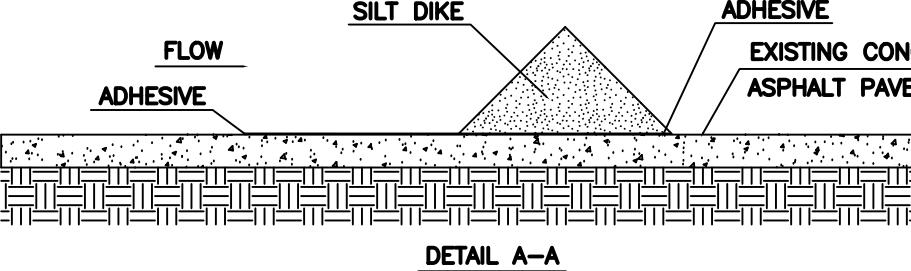
MAINTENANCE

SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE ORIGINAL HEIGHT OF THE BARRIER. COMPOST FILTER SOCKS SHALL BE REPLACED WHENEVER IT HAS DETERIORATED TO SUCH AN EXTENT THAT THE EFFECTIVENESS OF COMPOST FILTER SOCK IS REDUCED. COMPOST FILTER SOCKS SHALL REMAIN IN PLACE UNTIL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED. ALL SEDIMENT ACCUMULATION AT THE COMPOST FILTER SOCK SHALL BE REMOVED AND PROPERLY DISPOSED OF BEFORE THE COMPOST FILTER SOCK IS REMOVED.

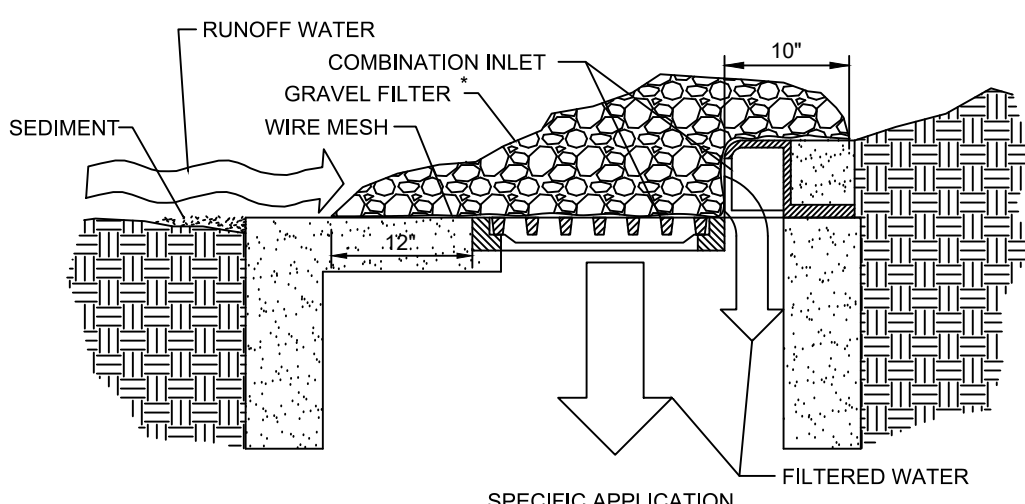


ADHESIVES: CONCRETE PAVEMENT USE LIQUID NAIL OR APPROVED EQUAL. ASPHALT PAVEMENT USE EMULSIFIED ASPHALT.

ADHESIVE SHALL BE PLACED WHERE THE UNITS OVERLAP AND A 20" STRIP ALONG BOTH EDGES.

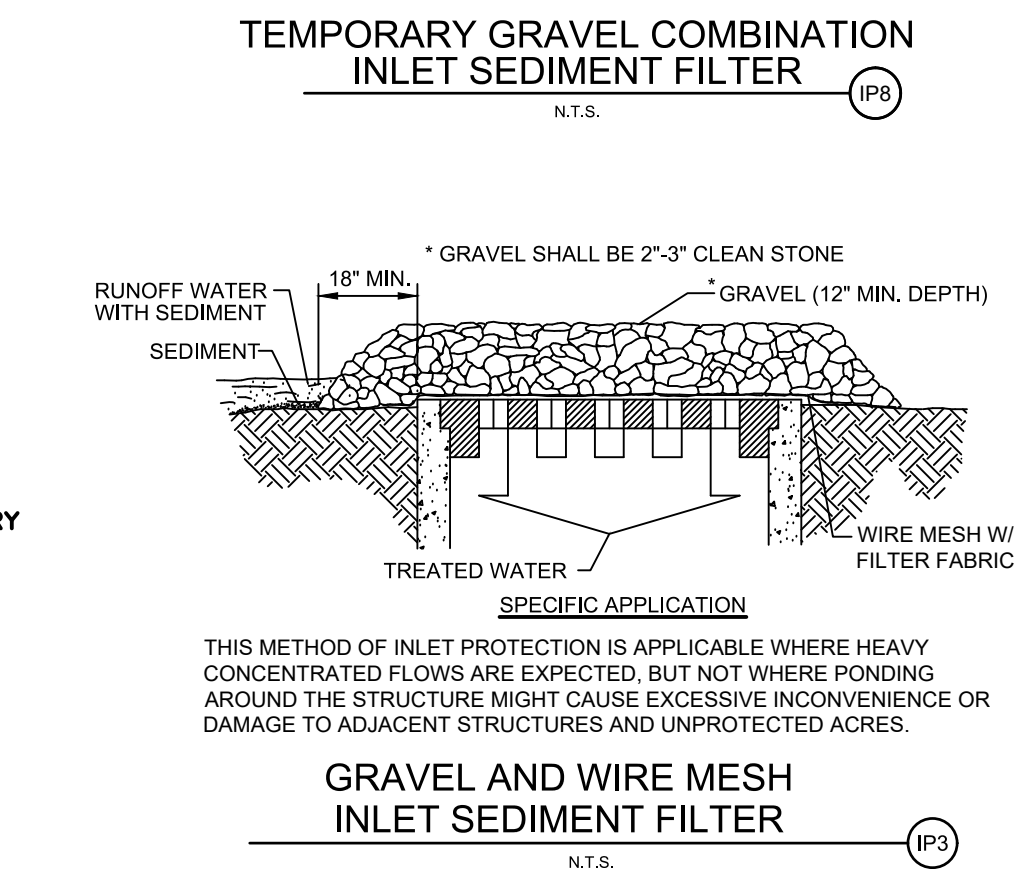


SDF



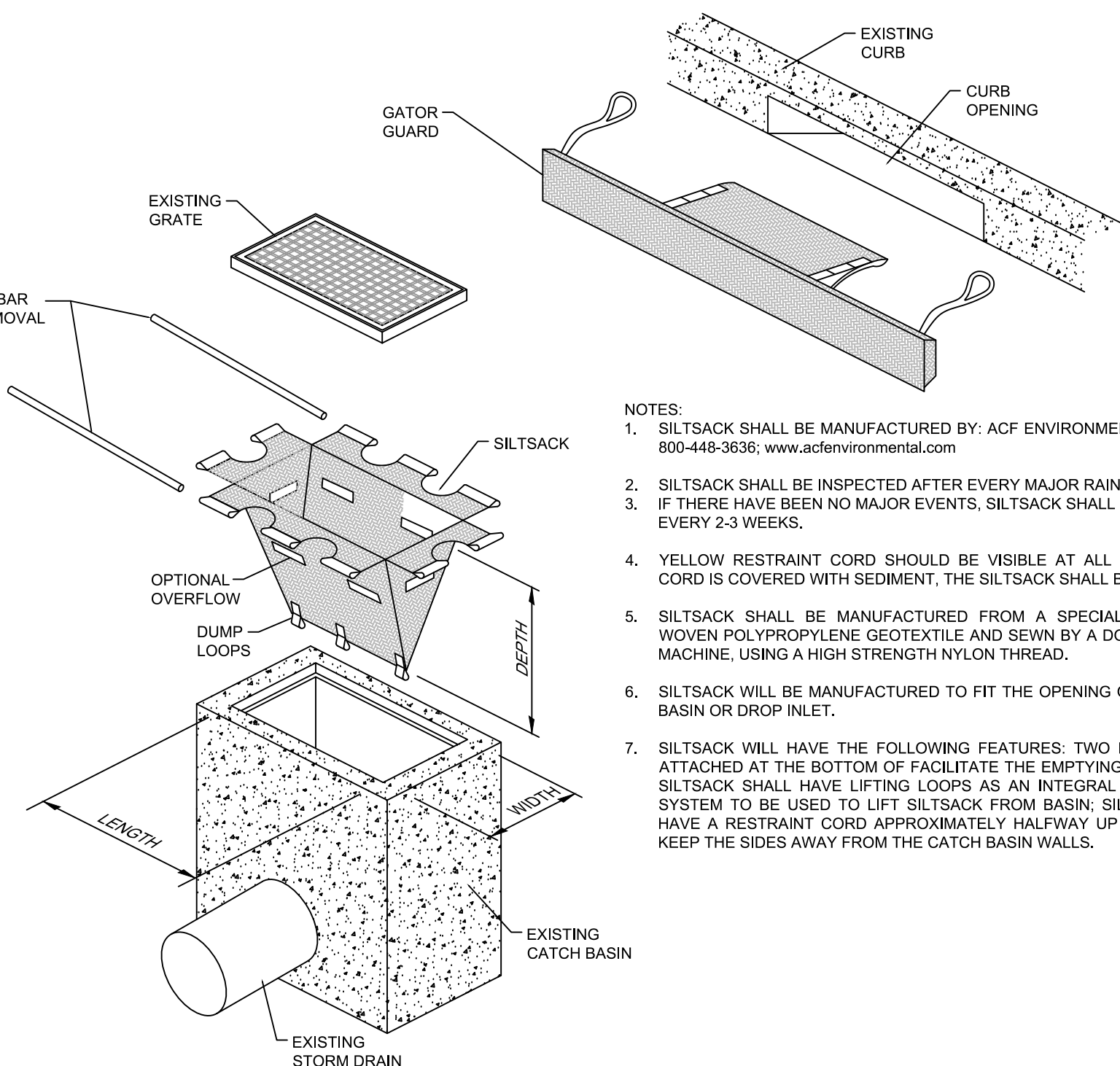
THIS METHOD OF INLET PROTECTION IS APPLICABLE AT COMBINATION INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE 2"-3" STONE

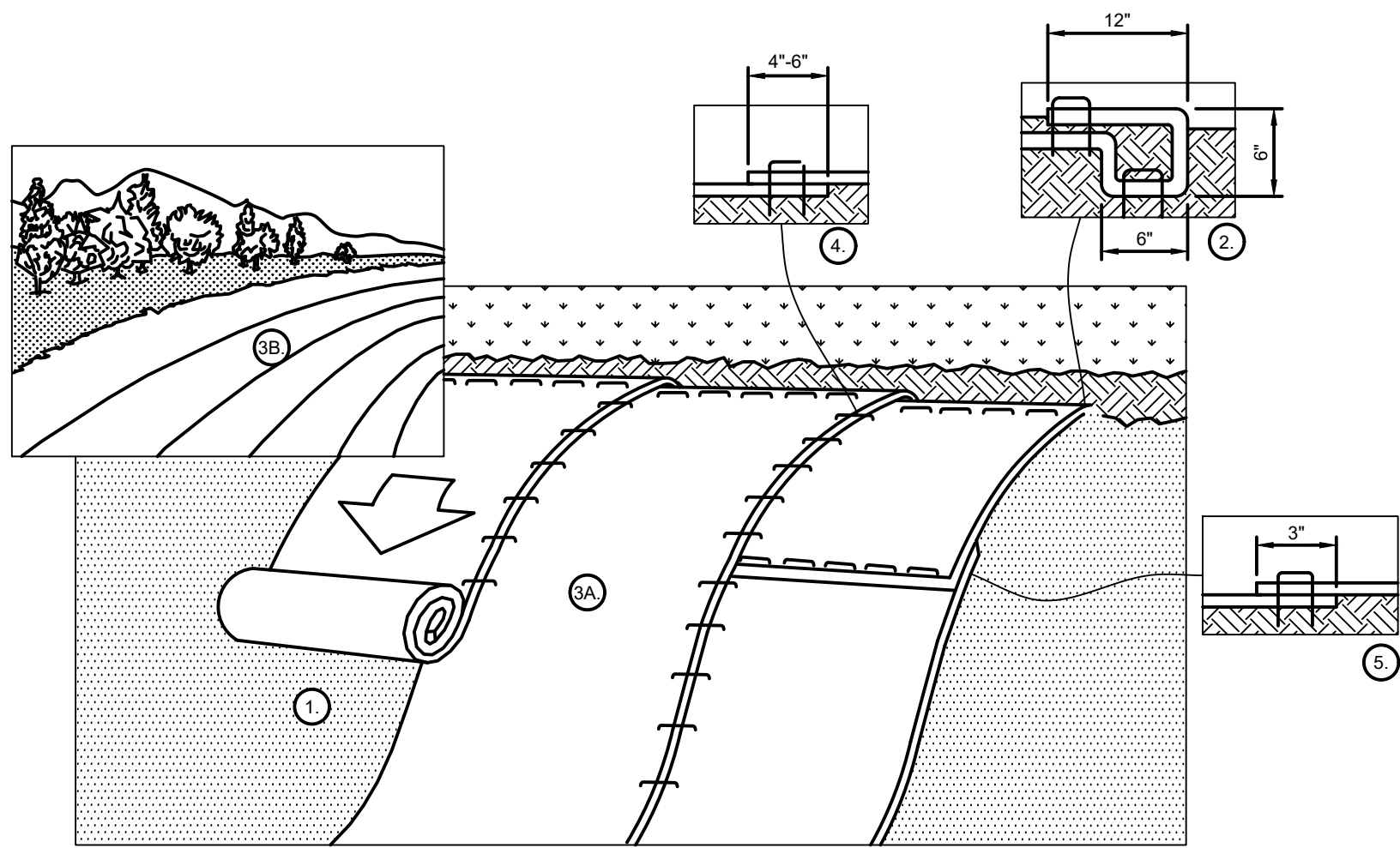


IP3

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Check positive response codes before you dig!



- NOTES:
- SILTSACK SHALL BE MANUFACTURED BY: ACF ENVIRONMENTAL, INC., PH. 800-448-3636; www.acfenvironmental.com
 - SILTSACK SHALL BE INSPECTED AFTER EVERY MAJOR RAIN EVENT.
 - IF THERE HAVE BEEN NO MAJOR EVENTS, SILTSACK SHALL BE INSPECTED EVERY 2-3 WEEKS.
 - YELLOW RESTRAINT CORD SHOULD BE VISIBLE AT ALL TIMES. IF THE CORD IS COVERED WITH SEDIMENT, THE SILTSACK SHALL BE EMPTIED.
 - SILTSACK SHALL BE MANUFACTURED FROM A SPECIALLY DESIGNED WOVEN POLYPROPYLENE GEOTEXTILE AND SEWN BY A DOUBLE NEEDLE MACHINE, USING A HIGH STRENGTH NYLON THREAD.
 - SILTSACK WILL BE MANUFACTURED TO FIT THE OPENING OF THE CATCH BASIN OR DROP INLET.
 - SILTSACK WILL HAVE THE FOLLOWING FEATURES: TWO DUMP STRAPS ATTACHED AT THE BOTTOM OF FACILITATE THE EMPTYING OF SILTSACK; SILTSACK SHALL HAVE LIFTING LOOPS AS AN INTEGRAL PART OF THE SYSTEM TO BE USED TO LIFT SILTSACK FROM BASIN; SILTSACK SHALL HAVE A RESTRAINT CORD APPROXIMATELY HALFWAY UP THE SACK TO KEEP THE SIDES AWAY FROM THE CATCH BASIN WALLS.



- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF BLANKET OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE BLANKET.
- ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS PER MANUFACTURERS RECOMMENDATION.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 4'-6" OVERLAP DEPENDING ON BLANKET TYPE. TO ENSURE PROPER SEAM ALIGNMENT, PLACE THE EDGE OF THE OVERLAPPING BLANKET (BLANKET BEING INSTALLED ON TOP) EVEN WITH THE SEAM STITCH ON THE PREVIOUSLY INSTALLED BLANKET.
- CONSECUTIVE BLANKETS SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE BLANKET WIDTH.
- PLACE STAPLES/STAKES PER MANUFACTURE RECOMMENDATION FOR THE APPROPRIATE SLOPE BEING APPLIED.

NOTES:

- IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.
- FOLLOW EROSION CONTROL TECHNOLOGY COUNCIL SPECIFICATION FOR PRODUCT SELECTION.

EROSION CONTROL BLANKET

N.T.S.

EB

SHEET NO.

C-5.2



Jason L. Toole, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JOB NO. M3892

J.C.H.

DRW

A.M.D.

DES

A.M.D.

PM

PRN

T.H.H.

DATE

REV-4

9/19/22

EROSION CONTROL DETAILS

MURPHY EXPRESS

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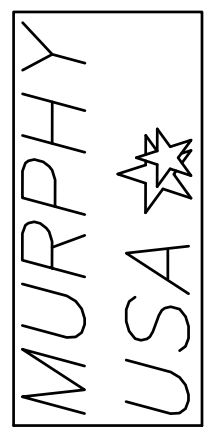
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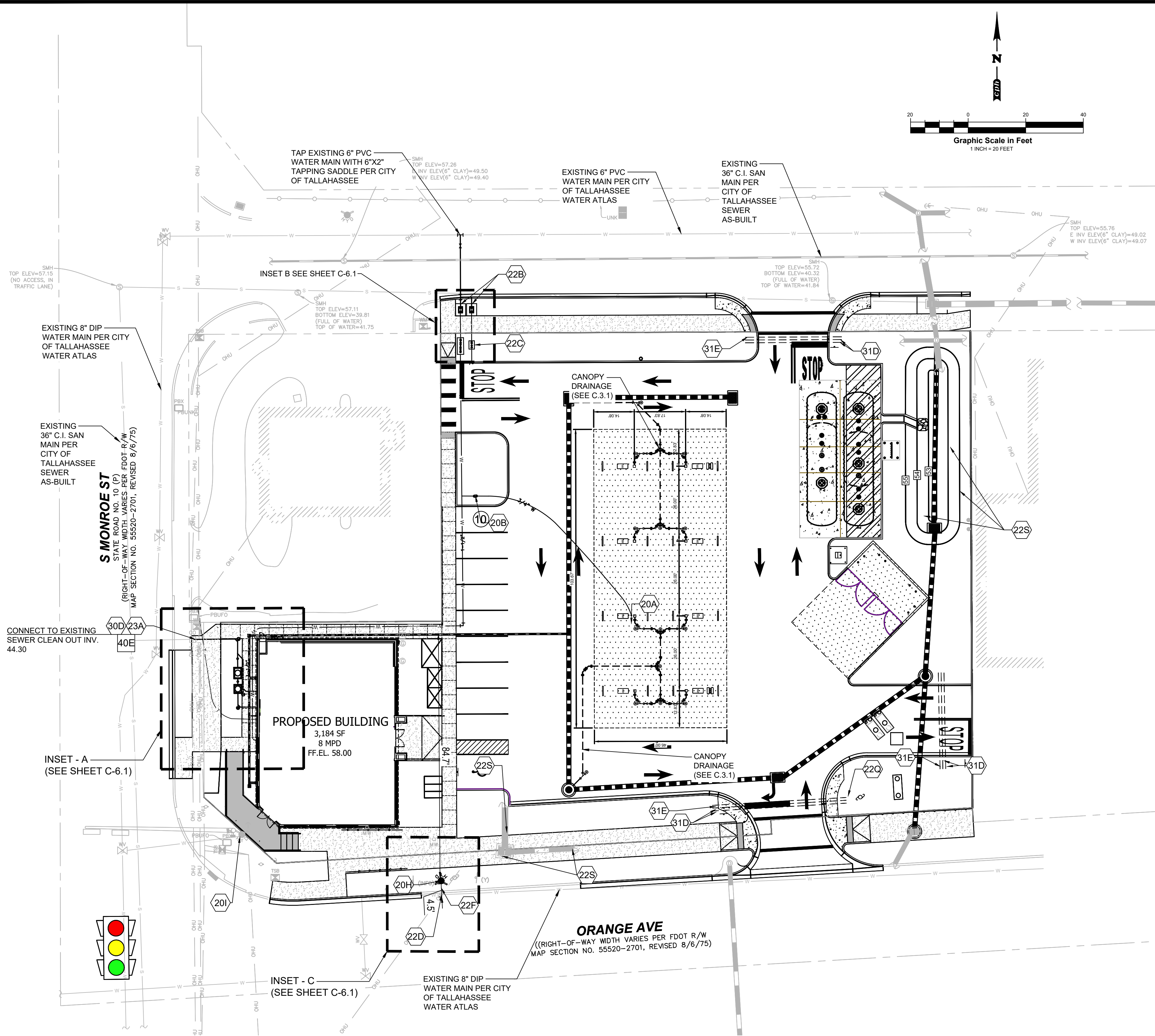


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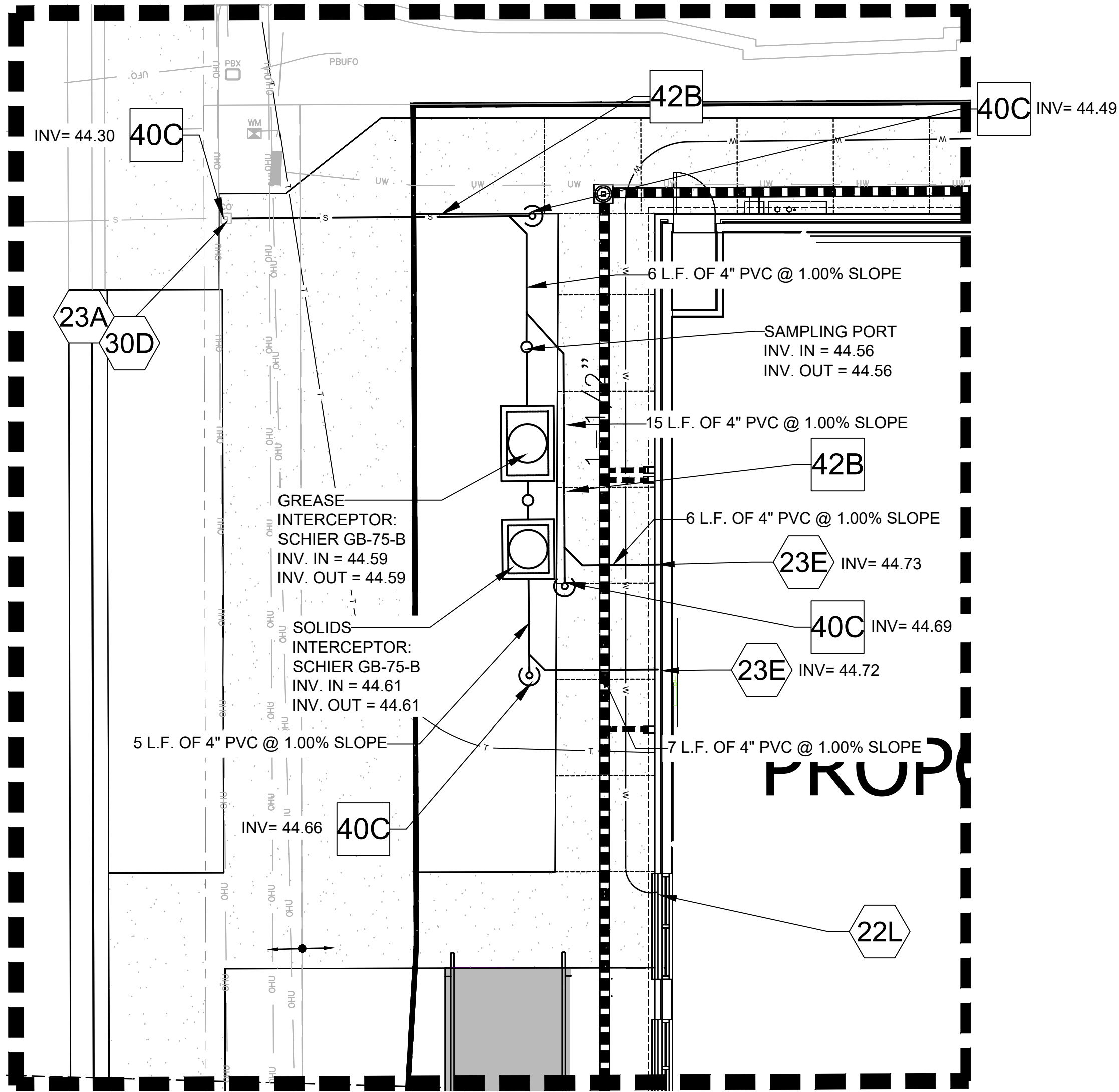


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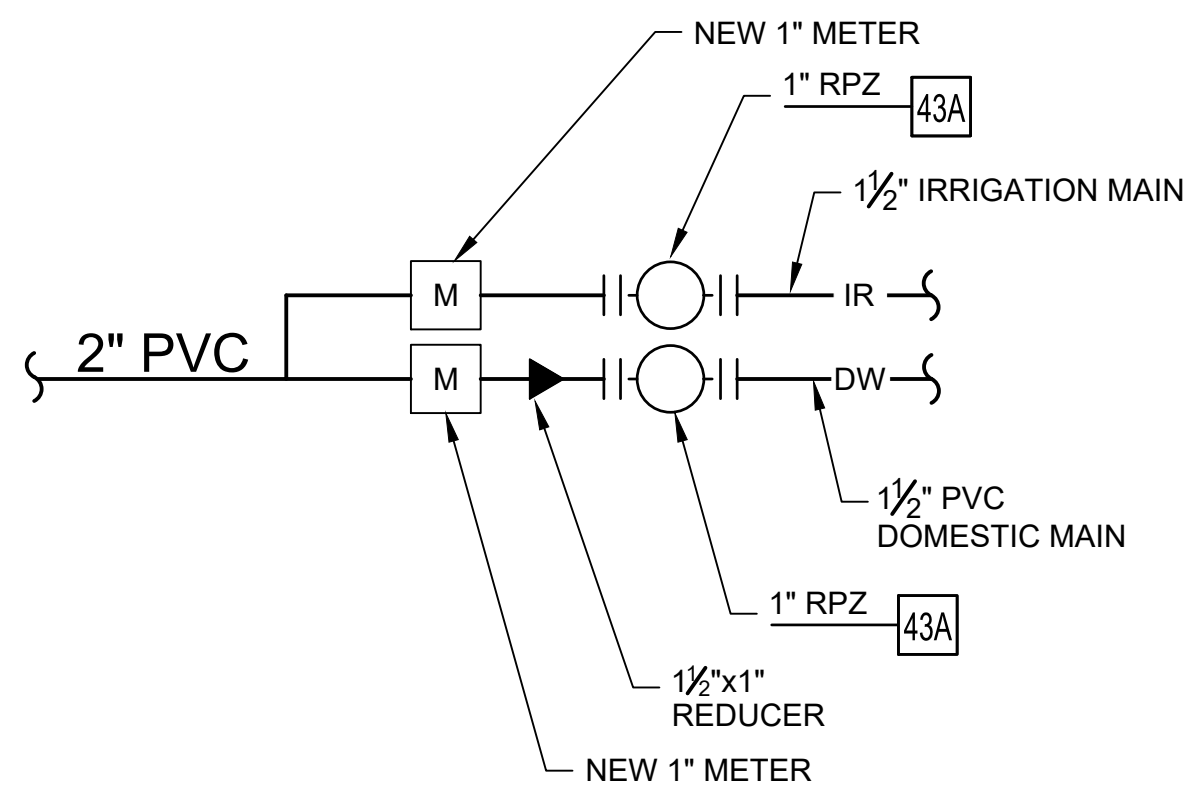
Check positive response codes before you dig!



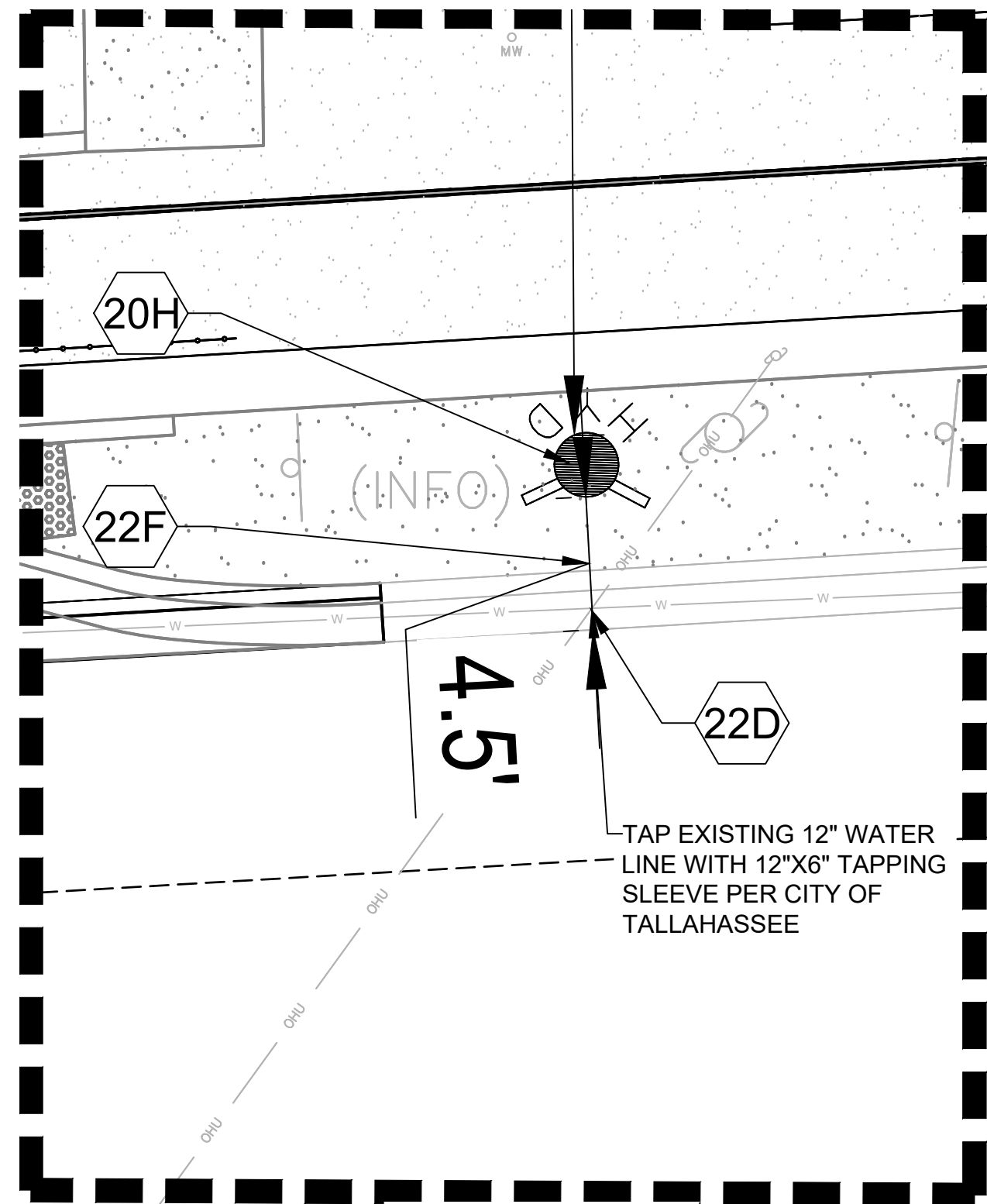
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INSET A
SCALE: 1" = 5'



INSET B



INSET C
SCALE: 1" = 5'

UTILITY INSTALLATION RESPONSIBILITIES			
ELECTRIC RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
CONDUIT / TRENCH			X
TRANSFORMER PAD		X	
CT CABINET	X		
PRIMARY WIRE		X	
SECONDARY WIRE		X	

TELEPHONE RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
CONDUIT / TRENCH	X		
PULL STRING	X		

WATER RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP			X
DOMESTIC METER			X
DOMESTIC BFP	X		
IRRIGATION METER	X		
IRRIGATION BFP	X		
HYDRANT	X		

SEWER RESPONSIBILITY			
	GENERAL CONTRACTOR	UTILITY PROVIDER	N/A
TAP			X

UTILITY NOTES
20B POINT OF CONNECTION - CANOPY WATER SERVICE
20H PROPOSED FIRE HYDRANT ASSEMBLY
22A POINT OF CONNECTION - WATER SERVICE
22B POINT OF CONNECTION - IRRIGATION METER
22C PROPOSED 1-1/2" PRESSURE VACUUM BREAKER IRRIGATION SYSTEM
22D POINT OF CONNECTION - FIRE SERVICE
22F PROPOSED 6" DIP FIRE SERVICE LINE
22L METERED DOMESTIC WATER SERVICE ENTRY PER ARCH. PLANS
22M EXISTING WATER METER
22P EXISTING GAS LINE TO BE CUT AND CAPPED AT PROPERTY LINE
23A POINT OF CONNECTION - EXISTING SANITARY SEWER CLEANOUT
23E SANITARY SEWER SERVICE ENTRY (PER ARCH. PLANS)
30D VERIFY LOCATION AND DEPTH OF EXISTING UTILITY BEFORE CONSTRUCTING PROPOSED UTILITY

UTILITY DETAILS
40C SANITARY SEWER CLEANOUT
40E SANITARY SEWER SERVICE CONNECTION TO EXISTING SEWER STUB OUT
41A TRENCH DETAIL
42B SANITARY SEWER TRENCHING AND BEDDING
43A BACKFLOW PREVENTER (2 REQUIRED)

UTILITY CONTACTS
ELECTRIC ELECTRIC AND GAS UTILITY CITY OF TALLAHASSEE (850) 891-5105 CONTACT: KENTON JAMES

SEWER & WATER UNDERGROUND UTILITIES & PUBLIC INFRASTRUCTURE CITY OF TALLAHASSEE (850) 891-6102 CONTACT: DEMETRI WILLIAMS
--

TELEPHONE LUMEN 1325 BLAIR STONE ROAD TALLAHASSEE, FL 32301 (850) 815-3139 CONTACT: DAVID C. POOLE
--

SHEET NO.
C-6.1

JASON LAMAR TOOLE
LICENSE
No. 66531
STATE OF
FLORIDA
PROFESSIONAL ENGINEER
JASON L. TOOLE, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida,
Professional Engineer, License No.
66531. This item has been digitally
signed and sealed by Jason L. Toole
on the date indicated here. Printed
copies of this document are not
considered signed and sealed and
the signature must be verified on
any electronic copies

REV-4
9/19/22
DATE
T.H.H.
PRN
A.M.D.
PM
A.M.D.
DES
J.CH.
JOB NO. M3892
DRW
UTILITY PLAN (2 OF 2)
MURPHY EXPRESS
2785 S MONROE ST
TALLAHASSEE
FLORIDA

cph
www.cphcorp.com
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Communities Together**
1902 SW 1st Street
Miami, FL 33135
Ph: 305.274.4805

Plans Prepared By:
CPH, LLC
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200 PEACH STREET
EL DORADO, AR 71731-7000
MURPHY
USA



Call 811 or visit sunshine811.com two full
business days before digging to have
buried facilities located and marked.
Check positive response codes before you dig!

ELEVATIONS SHOWN HEREON ARE BASED
ON THE NORTH AMERICAN VERTICAL
DATUM OF 1988 (NAVD '88)

J:\M3882\Civil\DWG_Curent_Plan_Set\Working\C-07 Paving & Joint Plan.dwg Aug 08, 2026 - 10:58am kupp

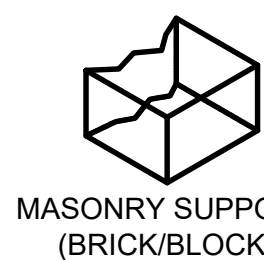


Call 811 or visit sunshine811.com two full business days before digging to have buried facilities located and marked.

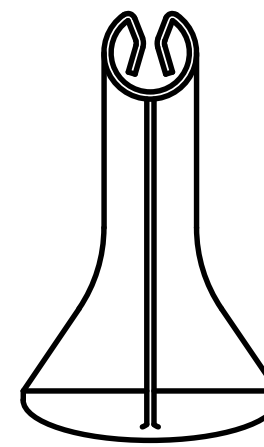
Check positive response codes before you dig!

SEE SHEET C-12 FOR CONCRETE SPECIFICATIONS AND SHEET C-12.1 EARTHWORK SPECIFICATIONS

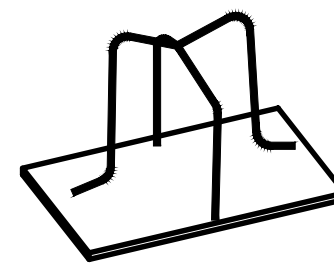
GC IS REFERRED TO GEOTECHNICAL REPORT PREPARED BY _____ DATED _____, 20____ FOR SITE PREPARATION CONDITIONS AND PAVEMENT REQUIREMENTS.



MASONRY SUPPORT (BRICK/BLOCK)



OPTIONAL CHAIR SUPPORT (PLASTIC)

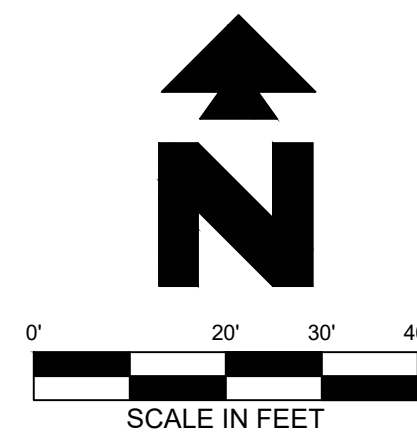


CHAIR SUPPORT (METAL W/PLATE)

CHAIR SUPPORT FOR REINFORCED CONCRETE PAVEMENT

N.T.S.

8A



THESE DRAWINGS DO NOT INCLUDE COMPONENTS FOR CONSTRUCTION SAFETY.

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

JOINT LEGEND

---	DJ	DUMMY JOINT (DJ)
---	IJ	ISOLATION JOINT (IJ)
---	BJ	BUTT JOINT (BJ)
---	EJ	EXPANSION JOINT (EJ)
---	CJ-1	CONSTRUCTION JOINT (CJ-1)
---	CJ-2	CONSTRUCTION JOINT (CJ-2)
---	PTT	PAVEMENT THICKNESS TRANSITION
III		SPECIAL REINFORCEMENT: 3 NO. 4 BARS 24" LONG (DEFORMED) AT 8" O.C. CENTERED AT END OF DEAD END JOINT OR AT STRUCTURE CORNERS

EXISTING

S	SANITARY SEWER LINE	○	SEWER MANHOLE
W	WATER LINE	○	WATER METER
UGE	UNDERGROUND ELECTRIC LINE	○	WATER VALVE
UGT	UNDERGROUND TELEPHONE LINE	○	FIRE HYDRANT
OHE.TV.T	OVERHEAD ELECTRIC TELEVISION/TELEPHONE	○	UTILITY POLE
---	CONTOUR LINE W/ELEVATION LABEL		

PROPOSED

---	BOUNDARY LINE
---	CONCRETE CURB
---	CONSTRUCTION FENCE

GENERAL SITE NOTES - PAVING

- CONCRETE ON ASPHALT UTILITY CUT REPAIR TO BE DYED TO MATCH SURROUND ASPHALT.
- UNLESS OTHERWISE SHOWN, CALLED OUT OR SPECIFIED HEREON ALL CURB AND GUTTER ADJACENT TO ASPHALT PAVING SHALL BE INSTALLED PER DETAIL 1A (SEE DETAILS SHEET C-9)
- SEE ASSOCIATED PLANS FOR CANOPY, COLUMN, DISPENSER ISLAND DETAILS AND LAYOUT.

PAVING NOTES

- MATCH EXISTING PAVEMENT ELEVATIONS
- TAPER CURB TO MATCH EXISTING CURB
- ASPHALT BUTTING JOINT
- LIMITS OF SAWCUT AND PAVEMENT REMOVAL

PAVING DETAILS

- INTEGRAL CONCRETE CURB
- AIR/VAC UNIT MOUNTING SLAB
- CONCRETE SIDEWALK
- CONCRETE SIDEWALK AT BUILDING
- ICE BOX MOUNTING SLAB
- PROPANE BOX MOUNTING SLAB
- ATM MOUNTING SLAB
- 8" HEAVY DUTY CONCRETE PAVING FOR TANK PAD
- 8" HEAVY DUTY CONCRETE DUMPSTER PAD
- 5" CONCRETE PAVING

ADDITIONAL PAVING NOTES

- SURFACE COURSE, BASE, AND SUB-GRADE SHALL BE PER GEOTECHNICAL ENGINEER'S RECOMMENDATIONS FOR LOCAL SOILS OR DRAINAGE CONDITIONS AND/OR METHODS.
- SUBGRADE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR OR AS SPECIFIED BY THE GEOTECHNICAL REPORT WHICHEVER IS MORE STRINGENT.
- FOLLOW RECOMMENDATIONS IN GEOTECH REPORT FOR REINFORCEMENT OF CONCRETE SECTIONS.
- FOLLOW RECOMMENDATIONS IN GEOTECH REPORT FOR PERMANENT UNDERDRAINS IN THE PAVEMENT AREAS.

GENERAL SITE NOTES - JOINT

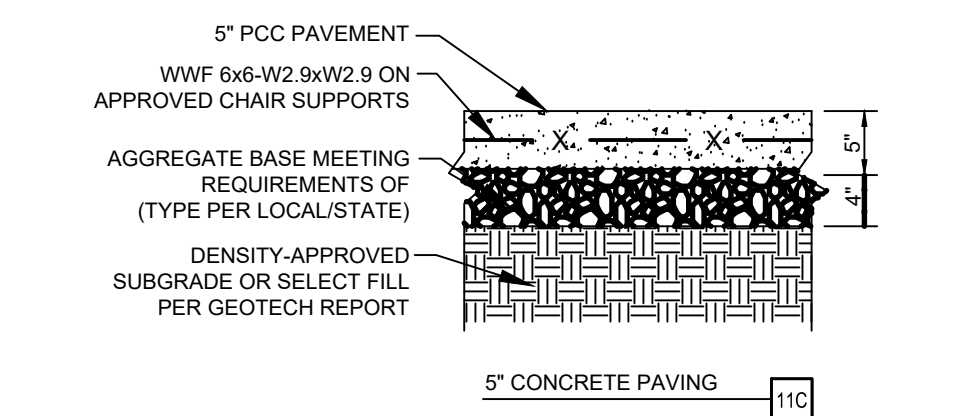
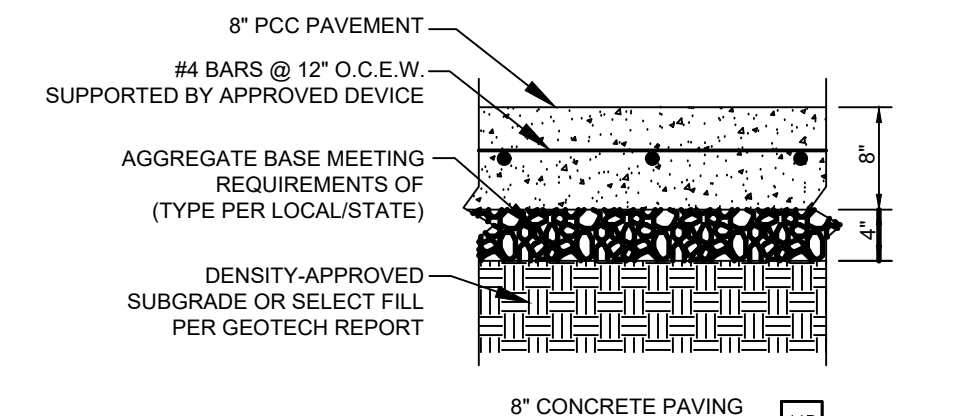
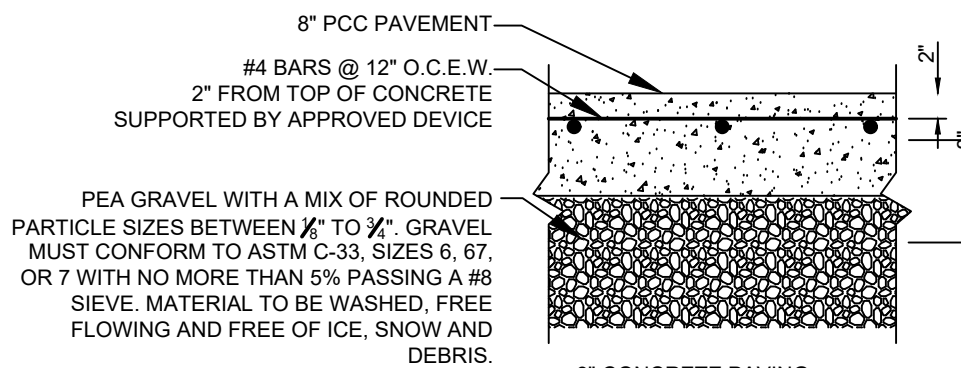
- THIS PLAN IS FOR RELATIVE LAYOUT AND SCOPE OF WORK PURPOSES ONLY. REFER TO SITE PLAN FOR RELATIONSHIP OF THESE STRUCTURE TO EXISTING CONDITIONS AND REFERENCE POINTS.
- FOAM EXPANSION JOINT MATERIAL SHALL SURROUND THE CANOPY COLUMNS, U-BUMPERS, BOLLARDS AND DISPENSER ISLANDS AT GRADE.
- DOWELED JOINTS SHALL BE LOCATED ON 12" CENTERS, ALONG THE INSIDE OF THE MOST EXTERIOR SLABS. DOWELS SHALL BE SMOOTH TYPE AND INSERTED INTO GREENSTREAK SPEED DOWEL FORMS. THE DOWEL IS LOCATED AT MID-SLAB DEPTH AND HELD IN PLACE LEVEL AND PERPENDICULAR TO THE JOINT USING THE SPEED DOWEL, WHICH REMAINS WITH THE FORM. AFTER THE FORMS ARE STRIPPED, THE DOWELS SHOULD BE CHECKED TO ASSURE FULL INSERTION AND ALIGNMENT IN THE INITIAL SLAB BEFORE POURING THE ADJACENT SLAB. DOWELS OCCURRING UNDER AND PARALLEL TO CONTROL JOINTS SHOULD BE DELETED. SEE TANK-PIPING PLANS FOR ADDITIONAL INFORMATION. SEE TANK-PIPING PLANS FOR ADDITIONAL INFORMATION.
- TANK SLAB SHALL EXTEND 2'-0" (MIN.) BEYOND TANK EDGE IN ALL DIRECTIONS.
- CHAMFER CORNER WHEN MEETING ASPHALT PAVING ONLY (24" EACH SIDE). SQUARE CORNERS WHERE MEETING CONCRETE PAVING.
- REINFORCE CONCRETE SLAB AROUND MANHOLE WITH 4 #5 REBAR 36" IN LENGTH ON EACH OF FOUR SIDES. PLACE REBAR 6" FROM SIDES OF SKIRT BOX. REINFORCING BARS TO BE A MINIMUM OF 2" AND MAX OF 4" FROM TOP OF CONCRETE. BARS SHALL BE SET ON A 45° ANGLE TO TYPICAL REINFORCING SHOWN IN DETAIL 11A.
- EXPANSION JOINTS SHALL BE FILLED WITH SIKAFLEX-1C-SL (LIMESTONE).

JOINT LAYOUT NOTES

- TANK MANHOLE REINFORCEMENT (SEE NOTE F ABOVE)

JOINT LAYOUT DETAILS - SEE DETAIL SHEETS

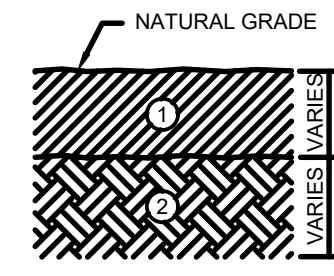
- TOOLED CONTROL JOINT
- #4 SMOOTH DOWEL BARS @ 24" O.C. (12" LONG)
- FOAM ISOLATION JOINT
- ASPHALT BUTTING JOINT



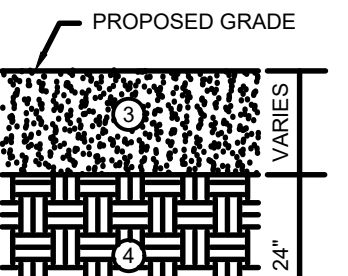
- NOTES:
- CONCRETE SHALL BE 4,000 PSI COMPRESSIVE STRENGTH.
 - SEE SHEET C-13 FOR CONCRETE SPECIFICATIONS.

CONCRETE PAVING

N.T.S.



EXISTING SECTION



PROPOSED SECTION UNDER PAVEMENT

- TOPSOIL / EXISTING PAVEMENT LAYER - REMOVE EXISTING PAVEMENT SECTION, SURFICIAL VEGETATION (6" MIN.) INCLUDING ORGANIC LADEN TOPSOIL, TREES, ROOTS, SOFT SOILS AND OTHER UNSUITABLE MATERIALS INCLUDING AND 5' BEYOND CONSTRUCTION LIMITS FROM THE SITE. THE TOPSOIL AND VEGETATION MATERIAL MAY BE STOCKPILED FOR USE IN LANDSCAPING OR REMOVE FROM SITE AS DIRECTED BY OWNER.
- EXISTING SUBGRADE - EXISTING SOILS AT TIME OF GEOTECH INVESTIGATION WERE FOUND TO BE EXCESSIVELY WET. EXISTING SOILS SHALL BE REMOVED TO ALLOW FOR PLACEMENT OF 24" OF SELECT ENGINEERED FILL BENEATH PAVEMENT. PRIOR TO FILL PLACEMENT, SUBGRADE SHALL BE PROOFROLLED WITH A HEAVY, LOADED PNEUMATIC-TIRED VEHICLE (20 TO 25 TON LOADED DUMP TRUCK) IN TWO PERPENDICULAR DIRECTIONS FOR COMPLETE COVERAGE. ANY AREAS WHICH EXHIBIT RUTTING OR PUMPING, SHALL BE REMOVE/REPLACED OR TREATED AS RECOMMENDED BY GEOTECHNICAL ENGINEER.
- PROPOSED PAVEMENT AND BASE MATERIAL (RE: 11B, 11C/THIS SHEET)
- FILL MATERIAL (IMPORTED MATERIAL) - SHALL CONSIST OF HOMOGENOUS SOILS FREE OF ORGANIC MATTER AND DEBRIS, OR PARTICLES LARGER THAN THREE (3) INCHES IN DIAMETER WITH LIQUID LIMIT LESS THAN 40, PLASTICITY INDEX BETWEEN 10 AND 20, AND CONSIST OF CLAYEY OR SILTY SANDS OR SANDY CLAY SOIL (SC, SM OR CL), AS DEFINED BY THE UNIFIED CLASSIFICATION SYSTEM. SELECT FILL SHOULD BE PLACED IN MAXIMUM LIFTS OF 8" AND BE COMPACTED TO AT LEAST 95% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557).

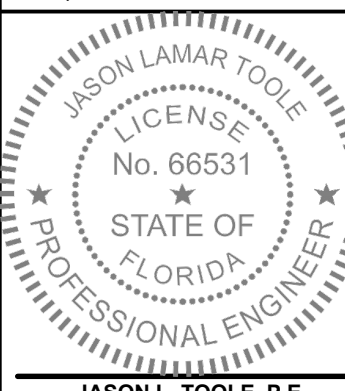
TYPICAL EARTHWORK SECTIONS

N.T.S.

8E

SHEET NO.

C-7



JASON L. TOOLE, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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JCH. DRW
A.M.D. DES
A.M.D. PM
9/9/22 DATE
REV-4
PAVING & JOINT PLAN
MURPHY EXPRESS
2785 S MONROE ST
TALLAHASSEE FLORIDA



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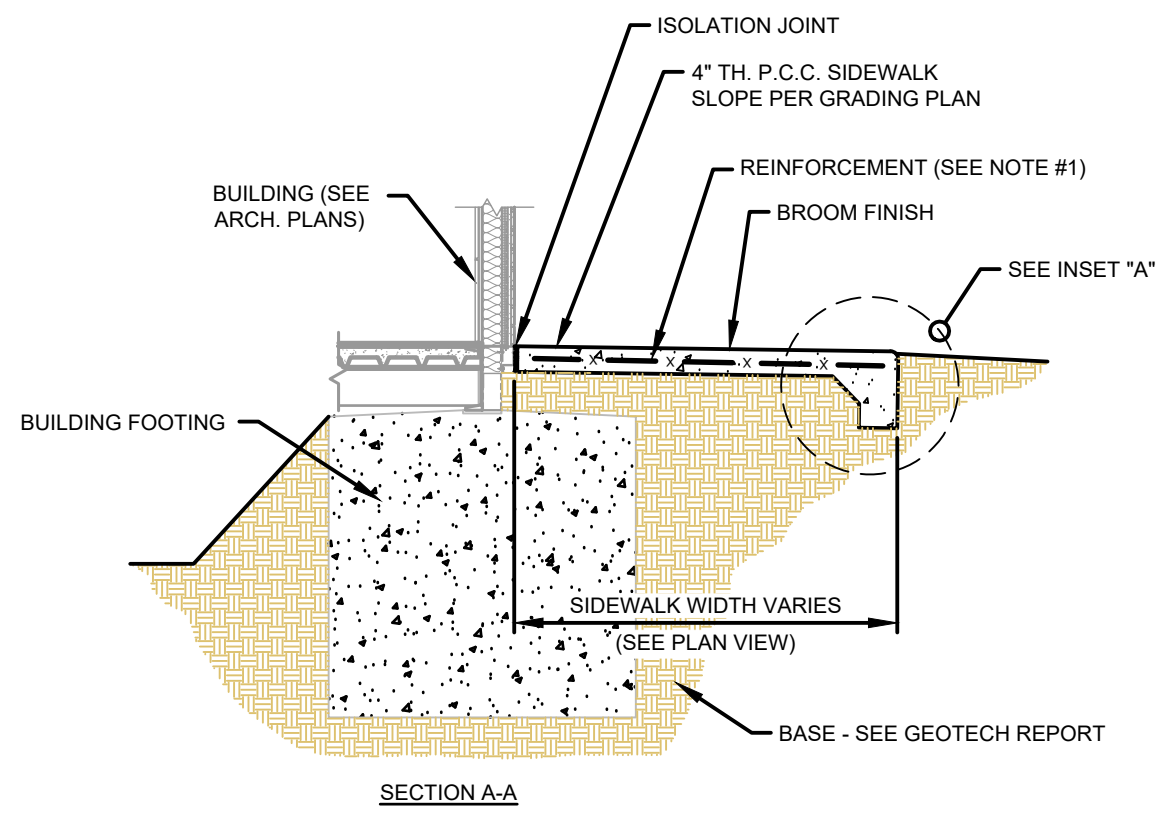
1992 SW 1st Street
Miami, FL 33135
Ph: 305.274.4805

Plans Prepared By:
CPH, LLC
A Full Service A & E Firm

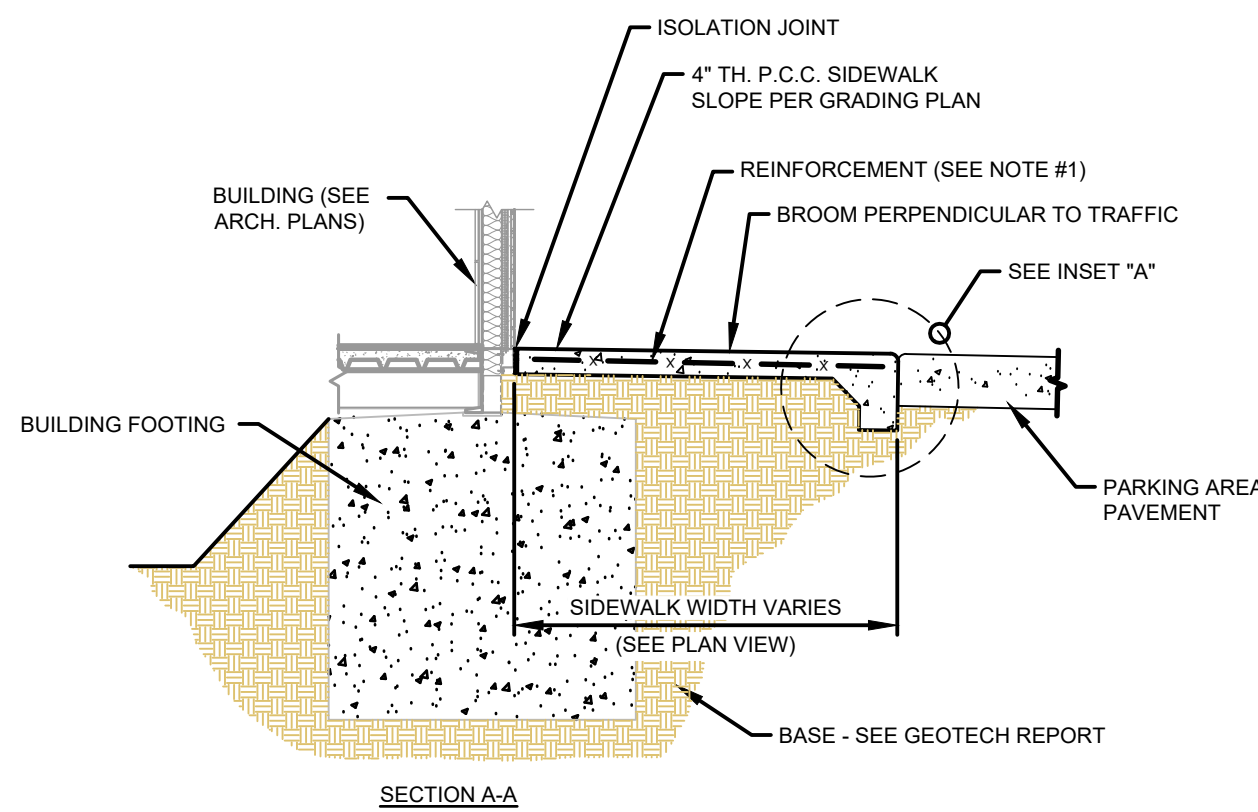
MURPHY OIL USA, INC.

MURPHY
USA

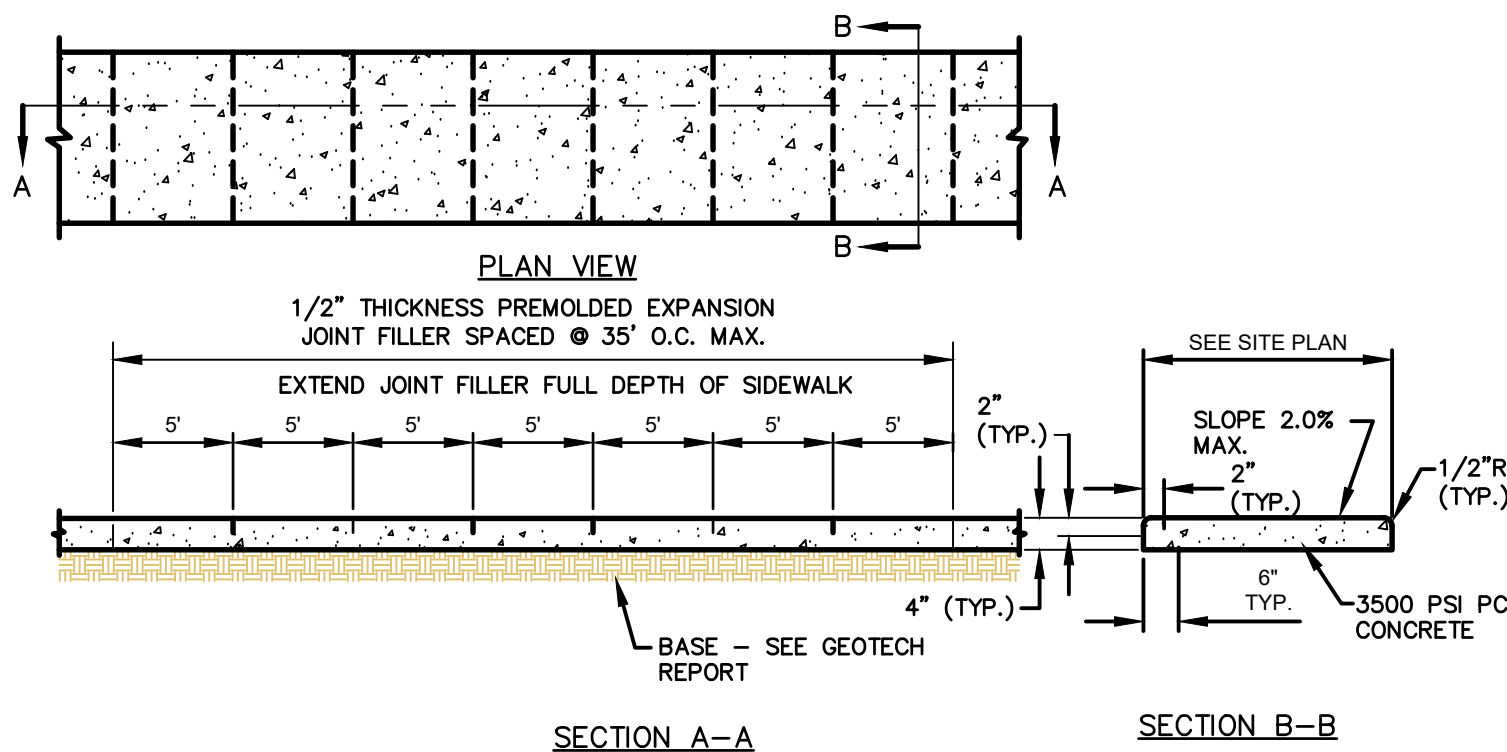
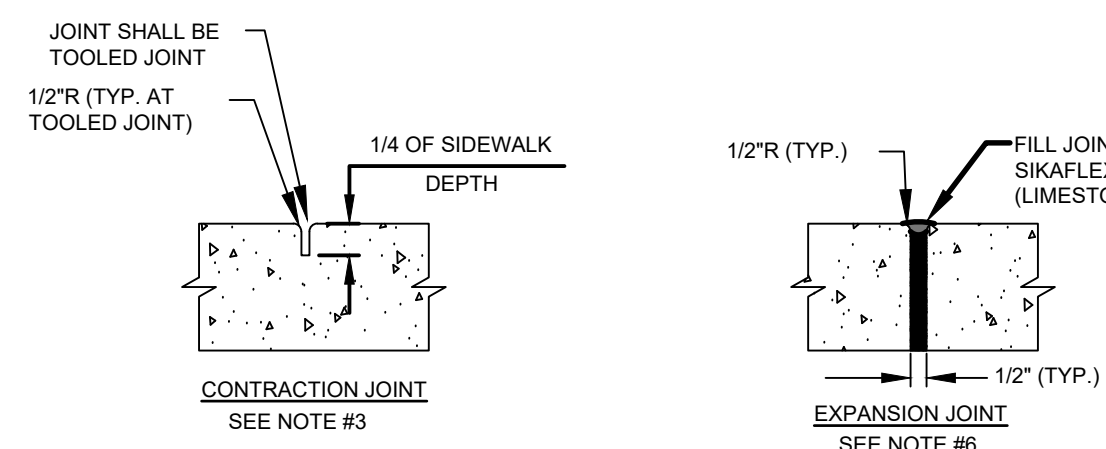
200 PEACH STREET
EL DORADO, AR 71731-7000



SIDEWALK AT BUILDING INTERFACE WITH TURNDOWN FOOTING
(WHERE NO PAVEMENT ABUTS BUILDING/REMOTE BUILDING SCENARIOS)
N.T.S.

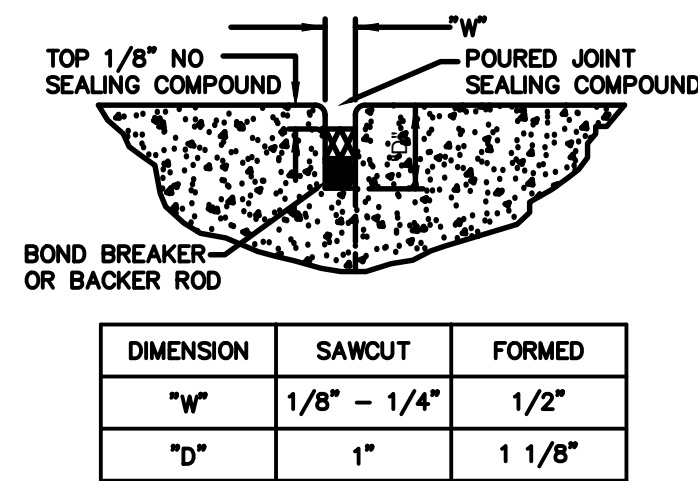
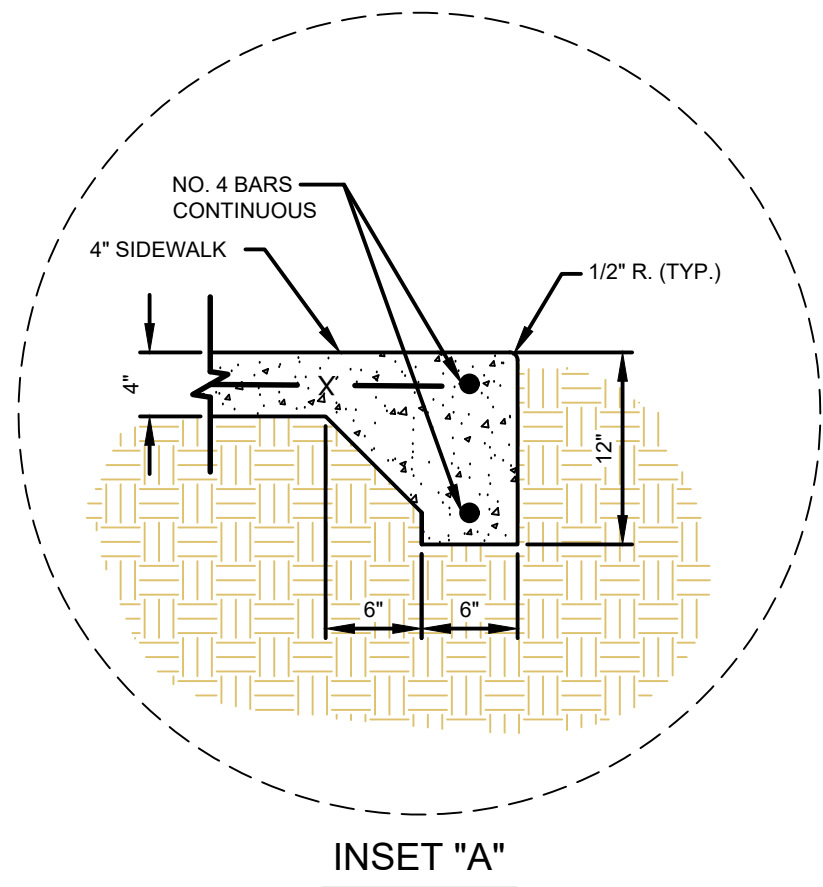


CONCRETE SIDEWALK AT BUILDING FRONT (FLUSH TRANSITION)
N.T.S.



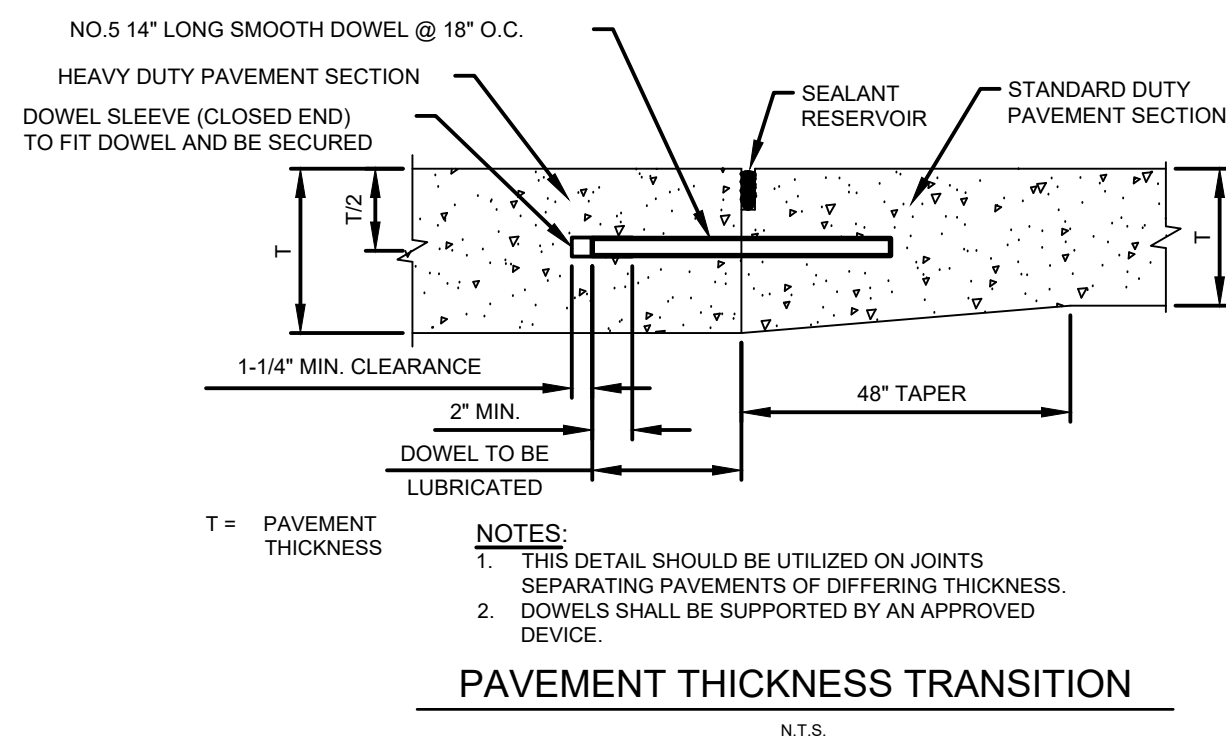
- NOTE:**
- REINFORCEMENT SHALL BE NO. 3 BARS, 24" O.C. EACH WAY OR 6 X 6 - W1.4 X W1.4 WWF. REINFORCEMENT SHALL BE PLACED 2" FROM TOP OF SIDEWALK WHERE REQUIRED.
 - CONCRETE SHALL BE 3,500 PSI.
 - CONTRACTION JOINTS SHALL BE PLACED A MAXIMUM OF 5' O.C.
 - TOOLED JOINTS SHALL BE PLACED IN FRESH CONCRETE WITH A MINIMUM DEPTH OF 1/4" OF THE TOTAL DEPTH OF SIDEWALK. TOOLED JOINT SHALL ALSO HAVE A MINIMUM 1/2" RADIUS ON EXPOSED EDGES.
 - FULL DEPTH EXPANSION JOINTS SHALL BE PLACED A MAXIMUM OF 35' O.C. PRE-MOLDED JOINT FILLER SHALL BE INSTALLED AT ALL EXPANSION JOINTS. EXTEND JOINT FILLERS FULL WIDTH AND DEPTH OF JOINT, AND NOT LESS THAN 1/2" OR MORE THAN 1" BELOW FINISHED SURFACE. JOINT SEALANT SHALL BE PLACED ABOVE JOINT FILLER IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - A FULL DEPTH EXPANSION JOINT SHALL BE PLACED WHERE THE SIDEWALK ABUTS THE BUILDING. PRE-MOLDED JOINT FILLER SHALL BE INSTALLED AT FULL DEPTH OF JOINT, AND NOT LESS THAN 1/2" OR MORE THAN 1" BELOW FINISHED SURFACE. JOINT SEALANT SHALL BE PLACED ABOVE JOINT FILLER IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

CONCRETE SIDEWALK
N.T.S.

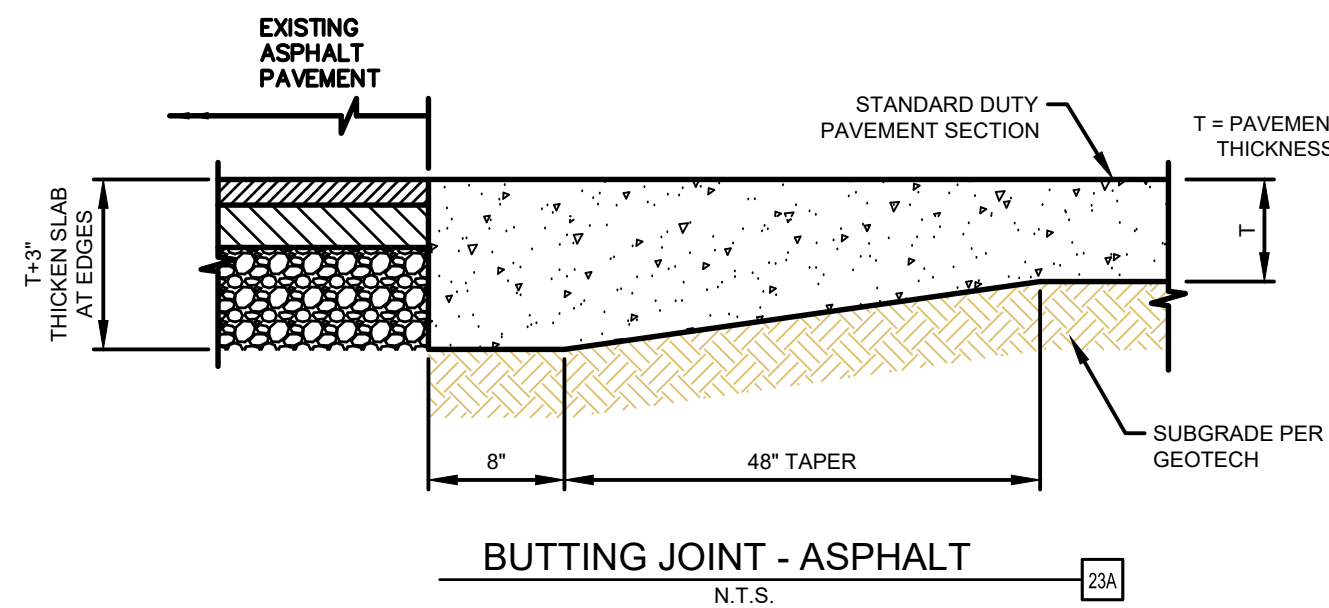


- NOTES:**
- SEALANT RESERVOIR CAN BE FORMED (CAST-IN-PLACE) OR SAWCUT.
 - SEALANT SHALL BE SIKAFLEX-1C-SL SELF-LEVELING SEALANT, COLOR LIMESTONE.
 - PROVIDE 3/4" BACKER ROD FOR FORMED SEALANT RESERVOIR.
 - PROVIDE BOND BREAKER FOR SAWCUT SEALANT RESERVOIR.
 - TOOL 1/2" RADIUS FOR FORMED SEALANT RESERVOIR.

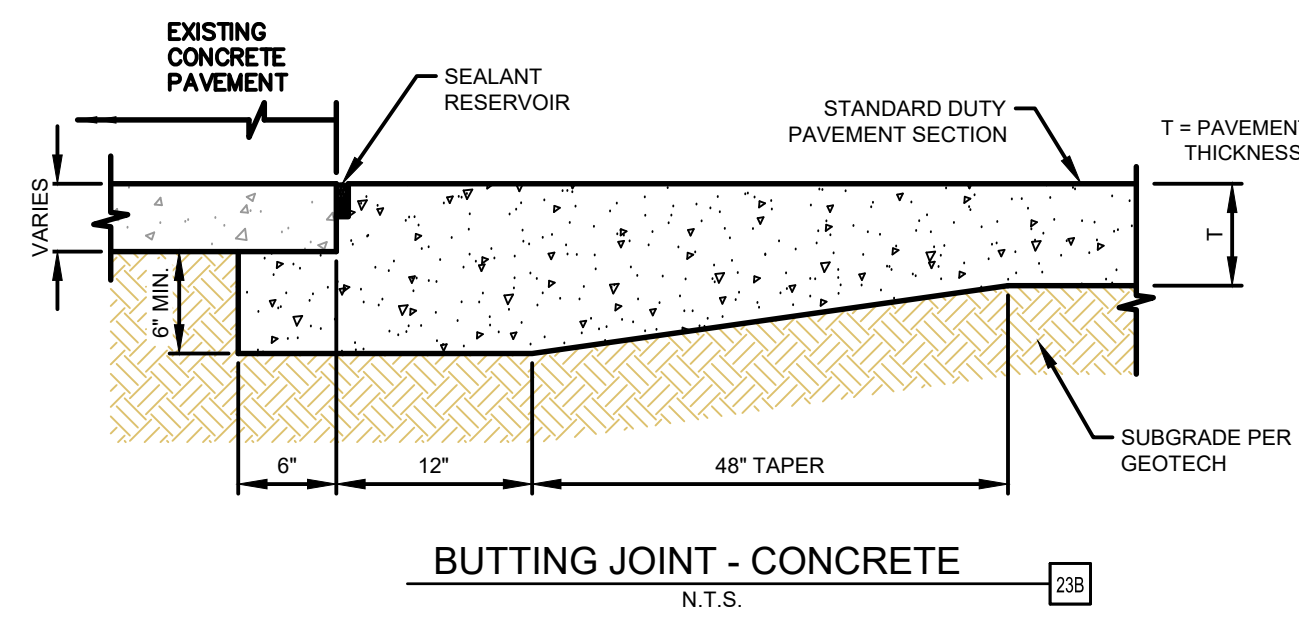
SEALANT RESERVOIR DETAIL
(ADJACENT TO STRUCTURES)
N.T.S.



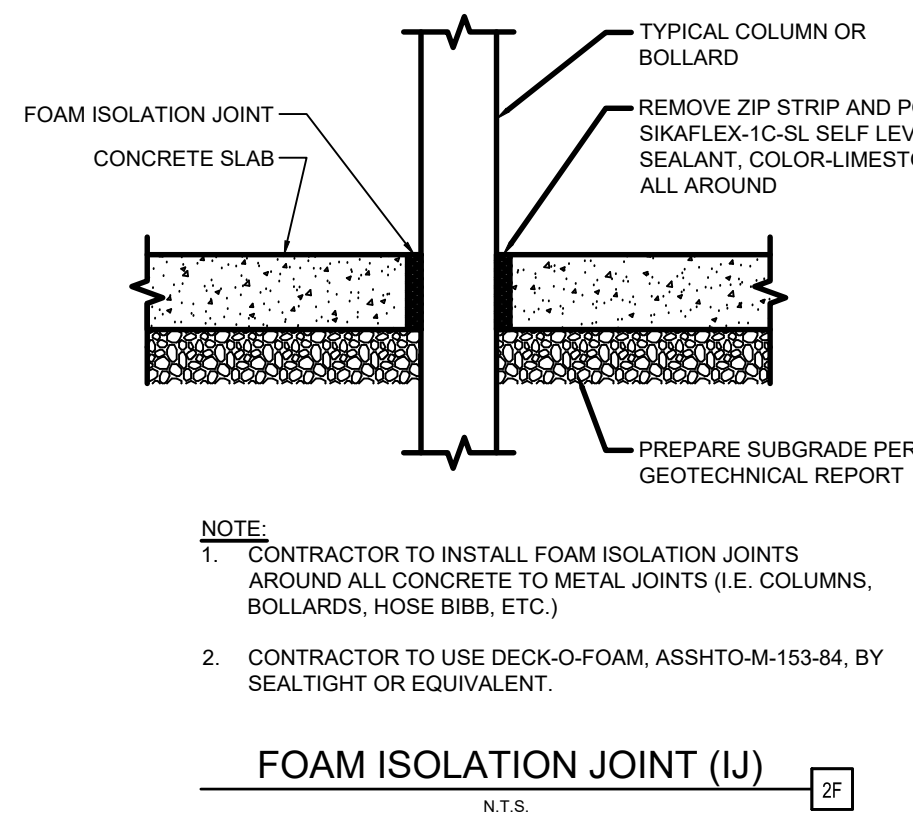
PAVEMENT THICKNESS TRANSITION
N.T.S.



BUTTING JOINT - ASPHALT
N.T.S.

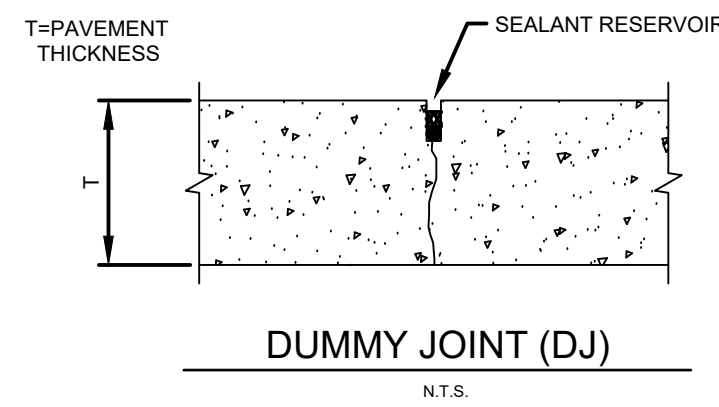


BUTTING JOINT - CONCRETE
N.T.S.

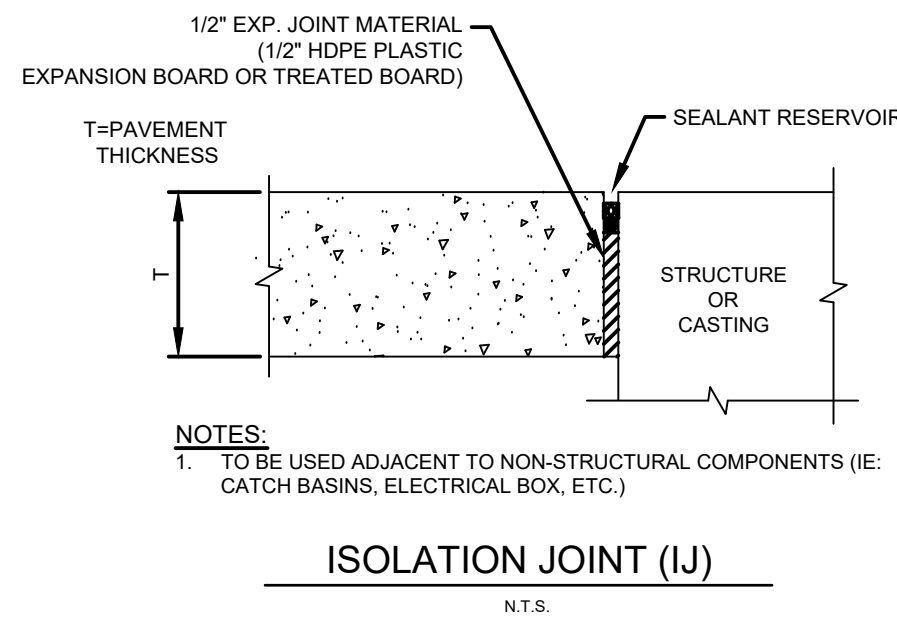


- NOTE:**
- CONTRACTOR TO INSTALL FOAM ISOLATION JOINTS AROUND ALL CONCRETE TO METAL JOINTS (I.E. COLUMNS, BOLLARDS, HOSE BIBB, ETC.).
 - CONTRACTOR TO USE DECK-O-FOAM, ASSHTO-M-153-84, BY SEALTIGHT OR EQUIVALENT.

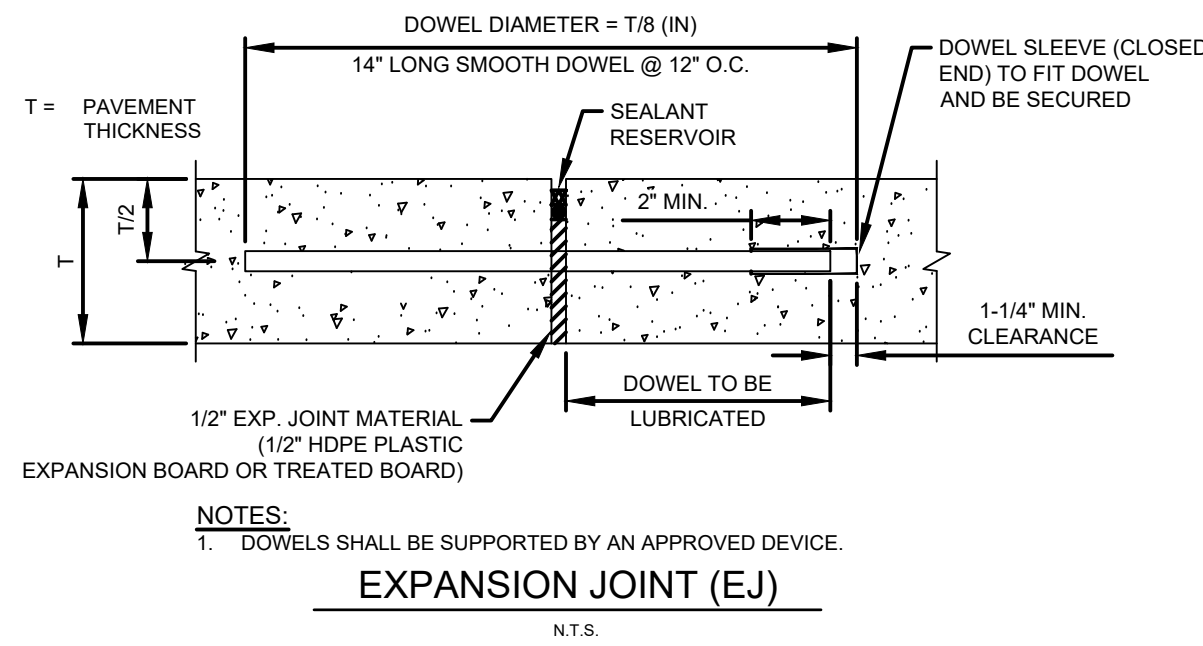
FOAM ISOLATION JOINT (IJ)
N.T.S.



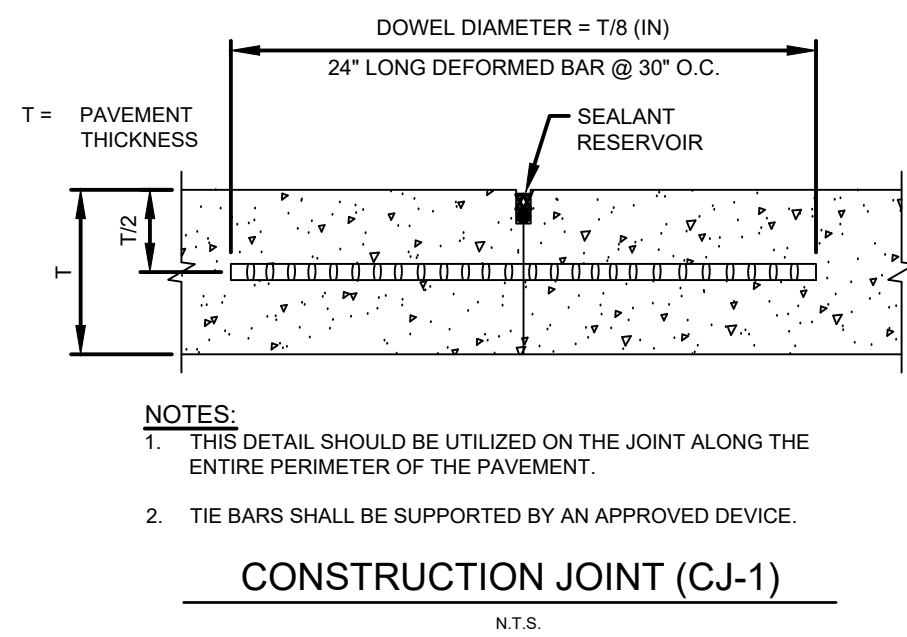
DUMMY JOINT (DJ)
N.T.S.



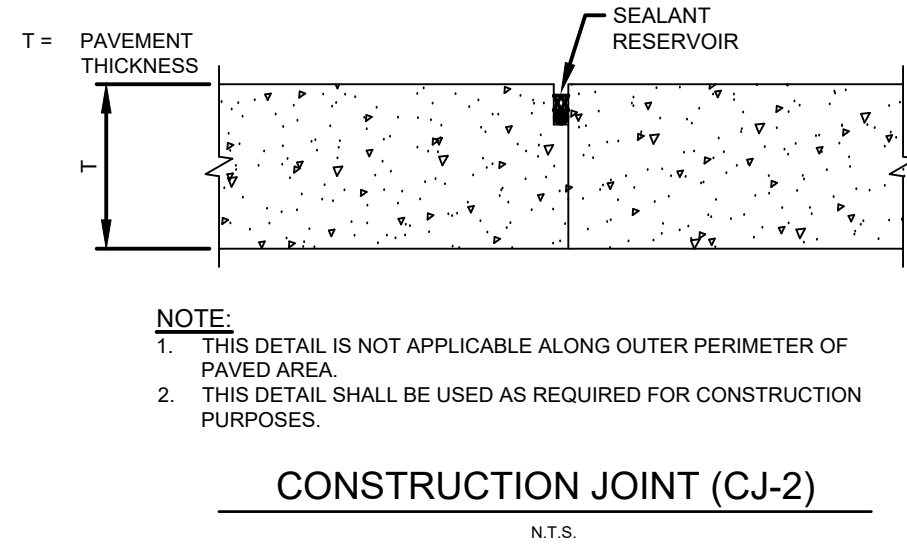
ISOLATION JOINT (IJ)
N.T.S.



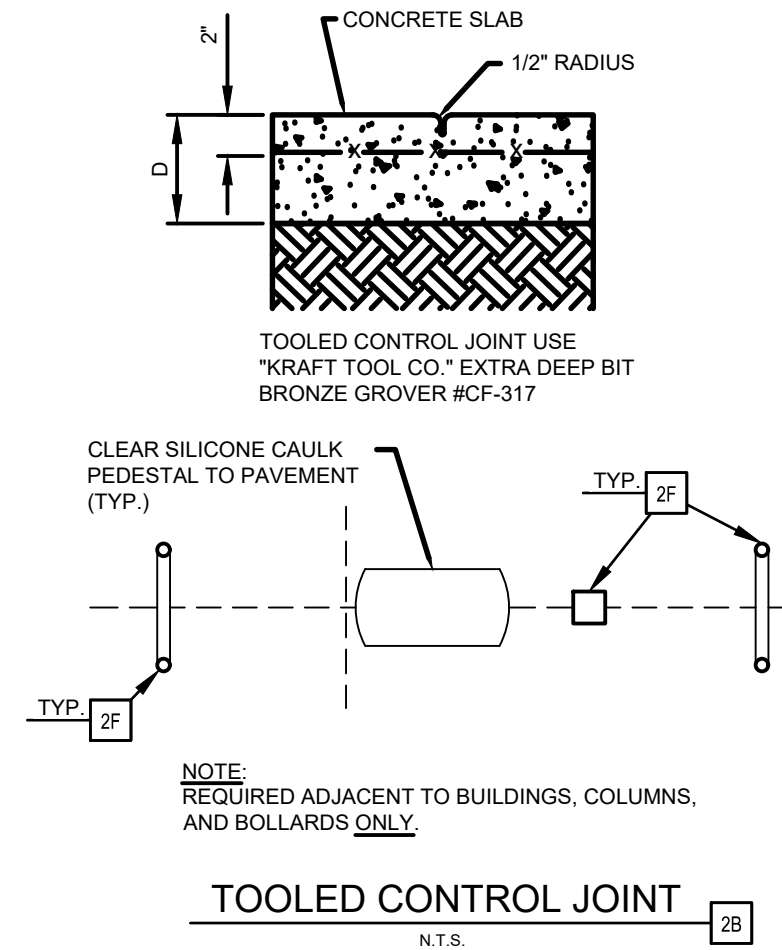
EXPANSION JOINT (EJ)
N.T.S.



CONSTRUCTION JOINT (CJ-1)
N.T.S.

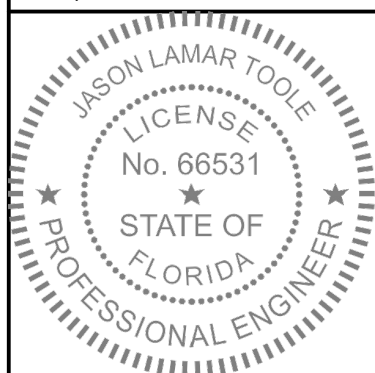


CONSTRUCTION JOINT (CJ-2)
N.T.S.



TOOLED CONTROL JOINT
N.T.S.

SHEET NO. **C-7.1**



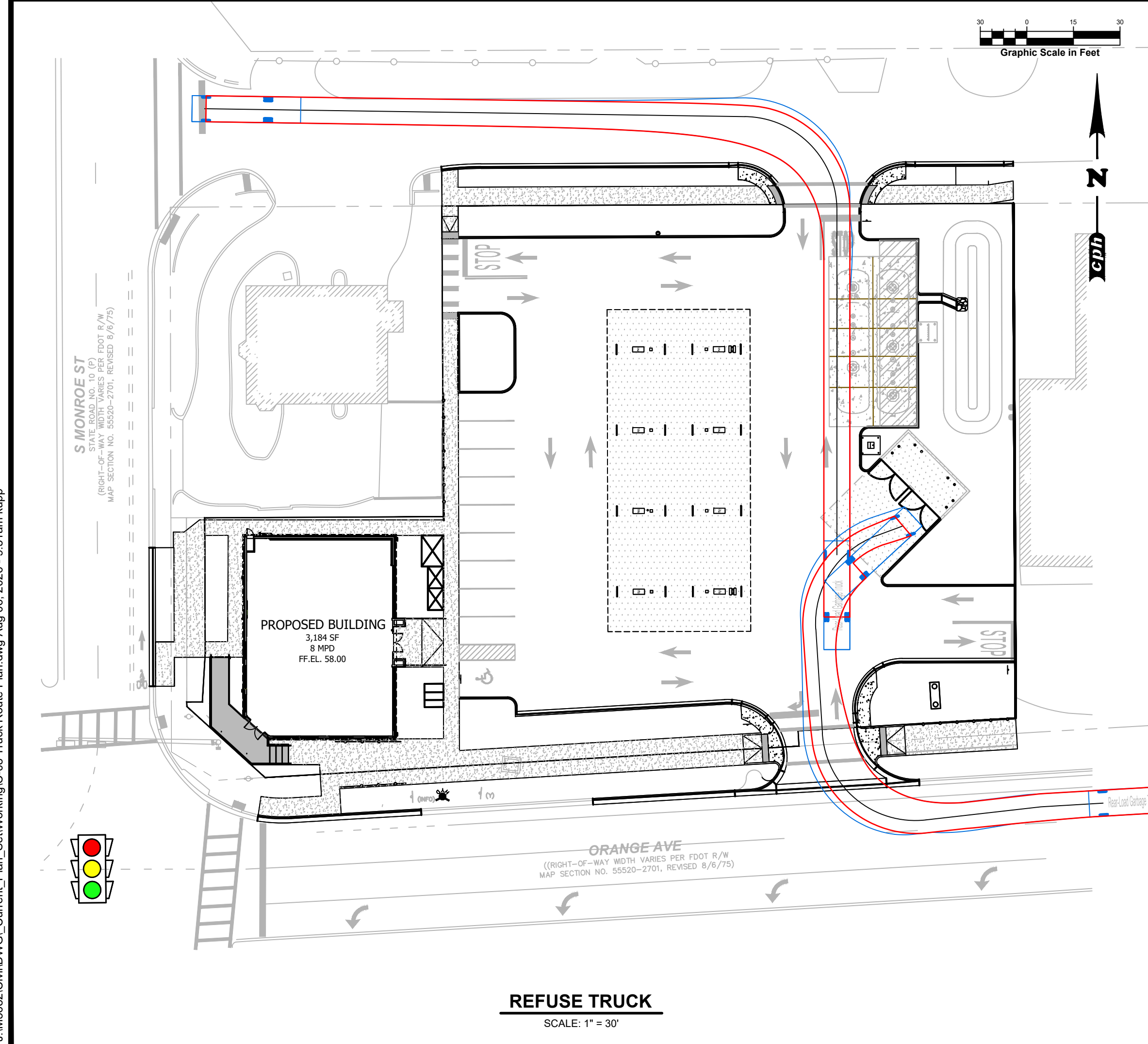
Jason L. Toole, P.E.
FL P.E. No. 66531
Professional Engineer
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JOINT DETAILS
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TALLAHASSEE FLORIDA

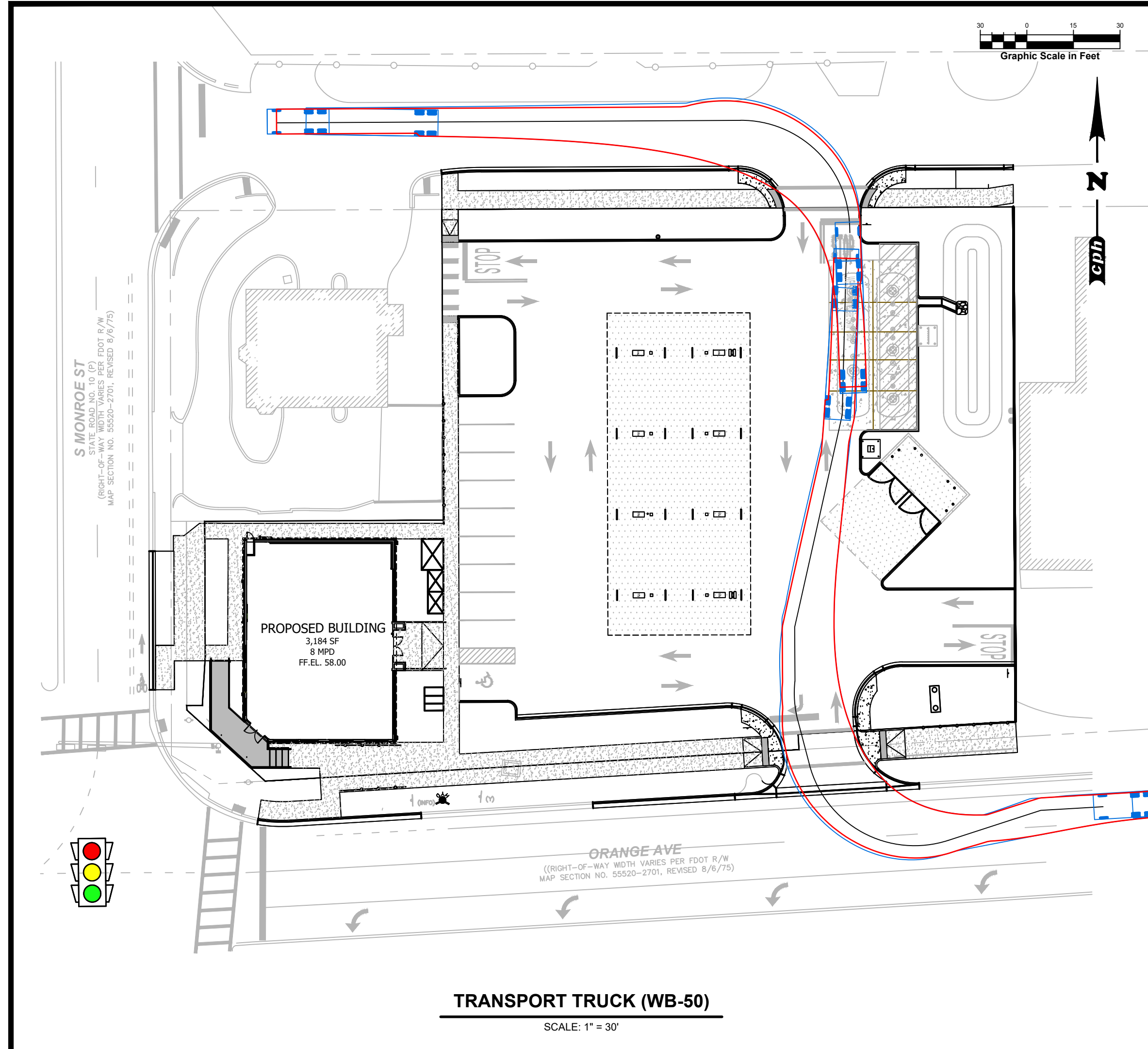
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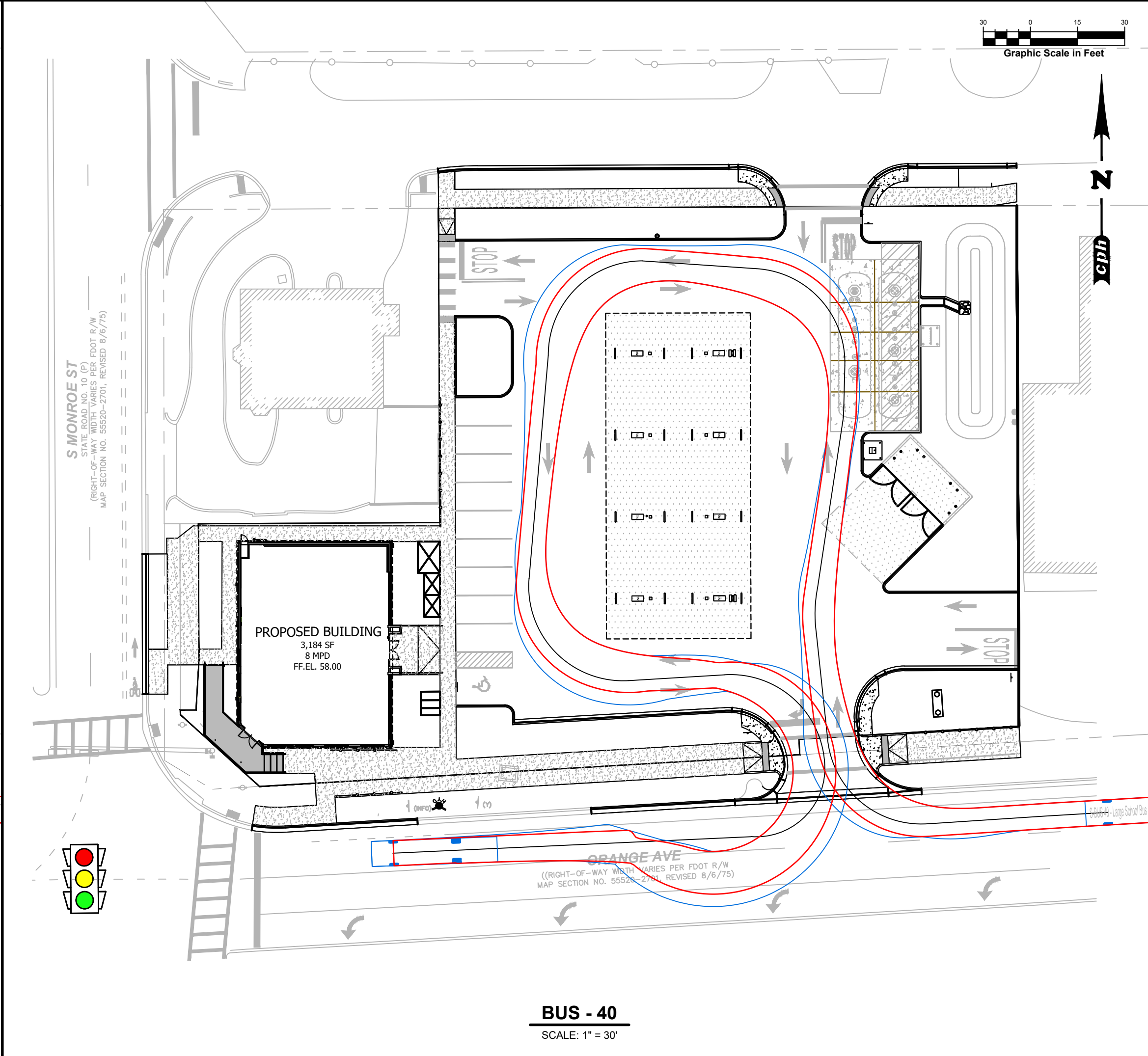
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EL DORADO, AR 71731-7000
MURPHY OIL USA



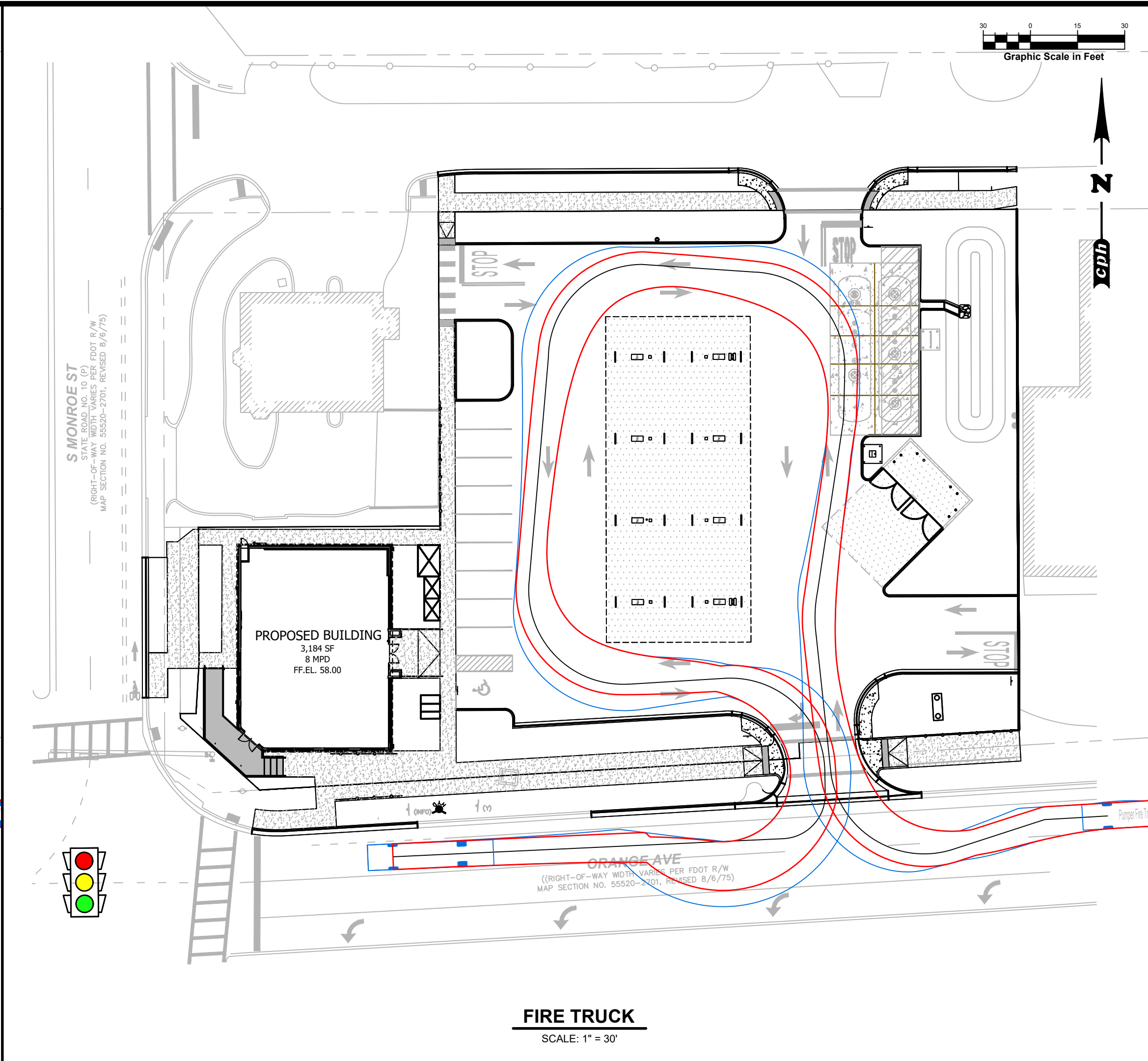
REFUSE TRUCK
SCALE: 1" = 30'



TRANSPORT TRUCK (WB-50)
SCALE: 1" = 30'

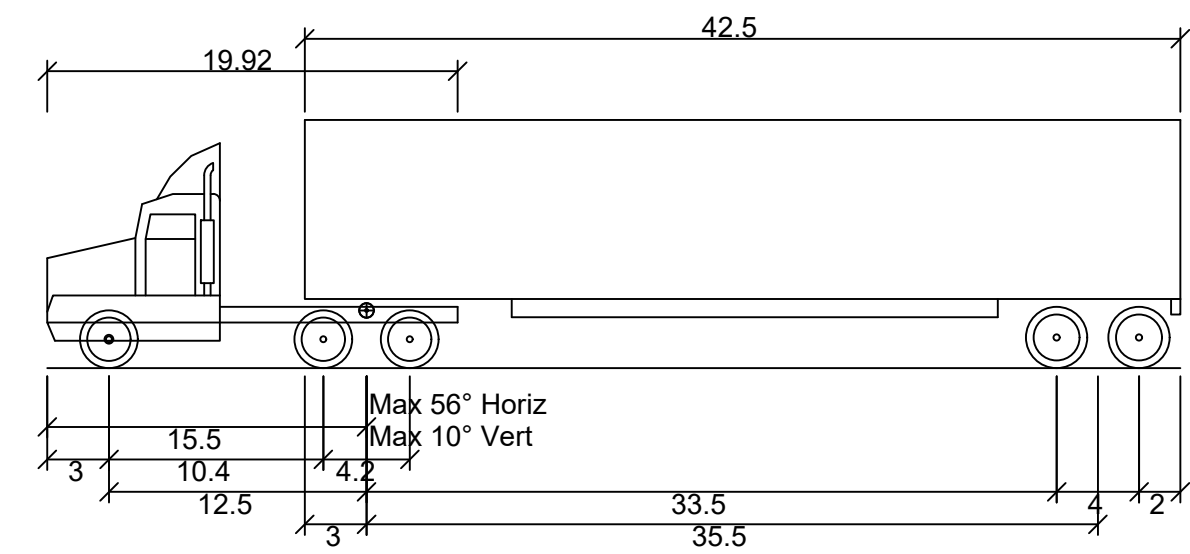


BUS - 40
SCALE: 1" = 30'



FIRE TRUCK

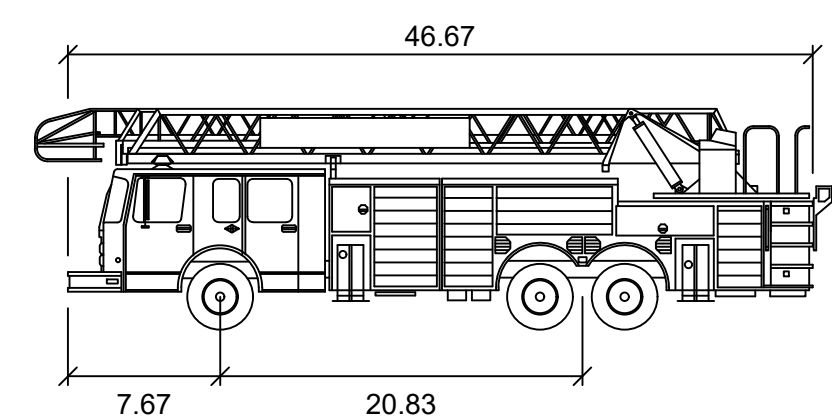
SCALE: 1" = 30'



OVERALL LENGTH	55.0'
OVERALL WIDTH	8.5'
OVERALL BODY HEIGHT	12.05'
MIN BODY GROUND CLEARANCE	1.33'
MAX TRACK WIDTH	8.5'
LOCK-TO-LOCK TIME	6.00S
MAX STEERING ANGLE (VIRTUAL)	17.90°

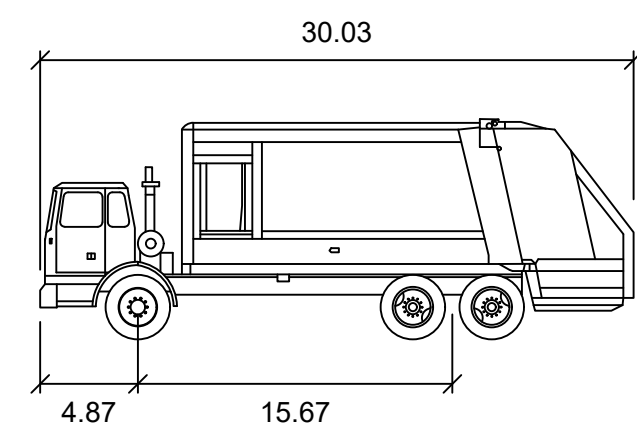
TRANSPORT TRUCK (WB-50)

N.T.S.



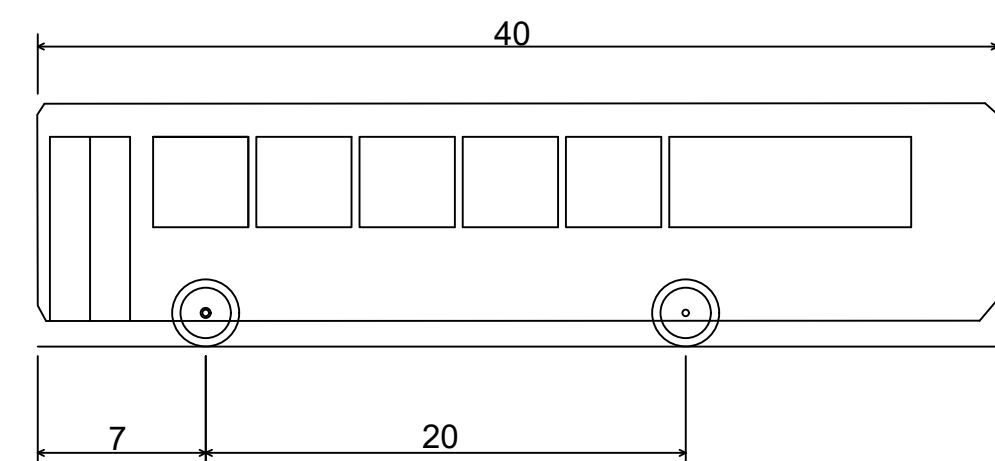
WIDTH
TRACK
LOCK TO LOCK TIME
STEERING ANGLE

FIRE TRUCK
N.T.S.



WIDTH
TRACK
LOCK TO LOCK TIME
STEERING ANGLE

REFUSE TRUCK
N.T.S.



OVERALL LENGTH	40.0'
OVERALL WIDTH	8.0'
OVERALL BODY HEIGHT	10.14'
MIN BODY GROUND CLEARANCE	1.07'
TRACK WIDTH	8.0'
LOCK-TO-LOCK TIME	5.00S
MAX STEERING ANGLE (VIRTUAL)	34.20°

REFUSE TRUCK
N.T.S.

MURPHY OIL USA, INC.

MURPHY
USA 

200 PEACH STREET
EL DORADO, AR 71731-7000

Plans Prepared By:
CPH ,LLC
A Full Service A & E Firm

1992 SW 1st Street
Miami, FL 33135
Ph: 305.274.4805

Building Better

cph

TRUCK ROUTE PLAN

MURPHY EXPRESS
2785 S MONROE ST
SSEE FLORIDA

TALLAHASSEE FLORIDA

JOB NO. M3682

JASON L. TOOLE, P.E.
FL. P.E. No. 66531

Jason L. Toole, State of Florida,
Professional Engineer, License No.
66531. This item has been digitally
signed and sealed by Jason L. Toole
on the date indicated here. Printed
copies of this document are not
considered signed and sealed and
the signature must be verified on
any electronic copies

A circular professional engineer seal for Jason Lamar Toole. The outer ring contains the text "JASON LAMAR TOOLE" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the text "LICENSE No. 66531" and "STATE OF FLORIDA", also separated by two stars.

SHEET NO.

- GENERAL NOTES:
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER
 2. ALL #4 & #6 REINFORCING BARS TO HAVE 1-1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
 3. SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS, AND FLOW LINES.
 4. PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF INLET.
 5. ALL REINFORCING BARS TO BE GRADE 60.

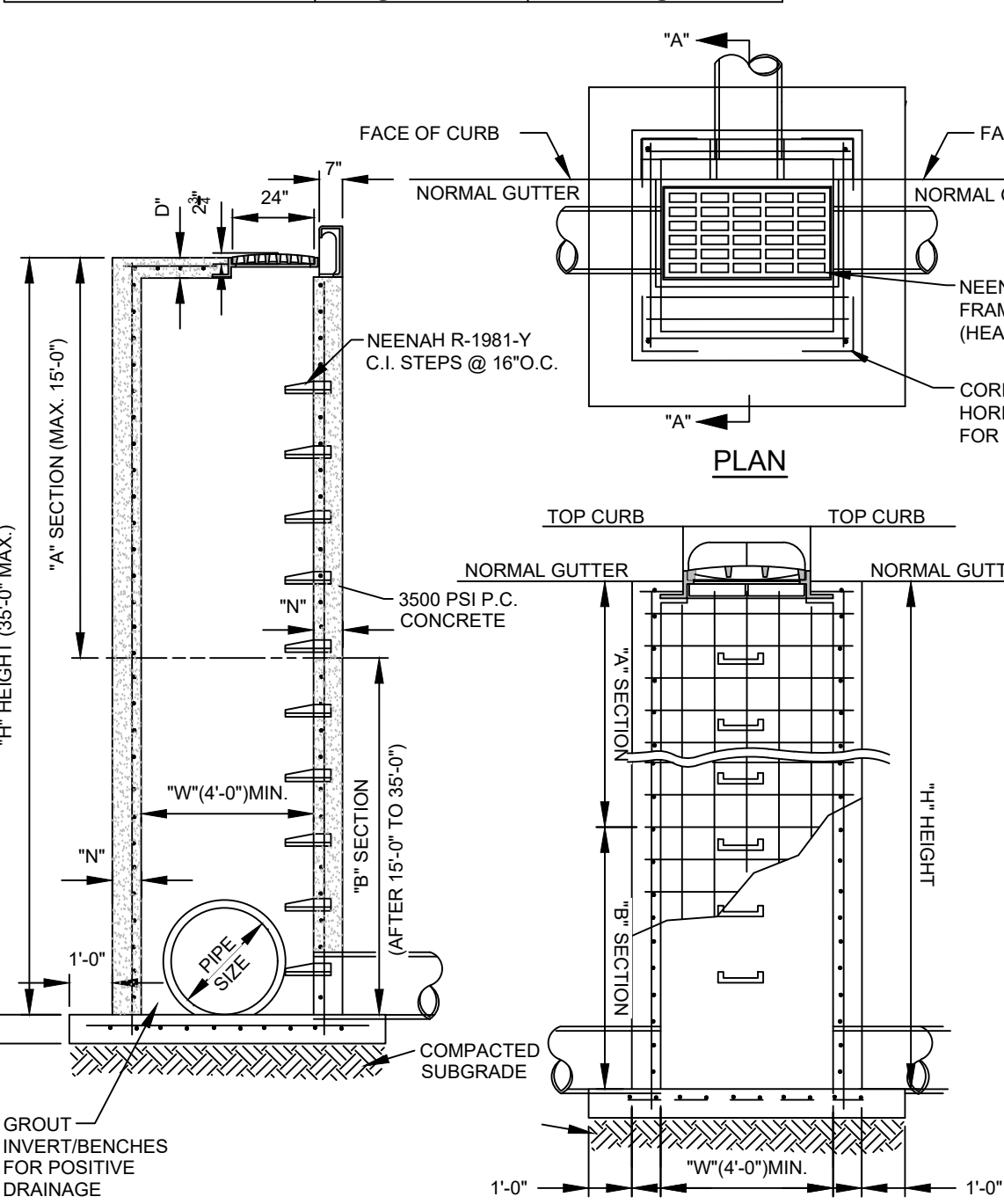
REINFORCEMENT SCHEDULE, WALLS				
SECTION	WIDTH ("W")	HOR.	VERT.	
"A"	4'	#4's @ 9"	#4's @ 10"	
	BETWEEN 4' & 7'	#6's @ 9"	#4's @ 10"	
	GREATER THAN 7'	#5's @ 4 1/2"	#4's @ 10"	
"B"	4'	#4's @ 9"	#4's @ 10"	
	BETWEEN 4' & 7'	#6's @ 9"	#4's @ 10"	
	GREATER THAN 7'	#5's @ 4 1/2"	#4's @ 10"	

TABLE OF "T" & "N" DIMENSIONS				
SECTION	WIDTH ("W")	"T"	"N"	"D"
"A"	BETWEEN 4' & 7'	6" + PIPE THICKNESS	8"	6"
	GREATER THAN 7'	6" + PIPE THICKNESS	8"	8"
	4'	6" + PIPE THICKNESS	8"	8"
"B"	BETWEEN 4' & 7'	6" + PIPE THICKNESS	10"	8"
	GREATER THAN 7'	6" + PIPE THICKNESS	10"	8"
	4'	6" + PIPE THICKNESS	10"	8"

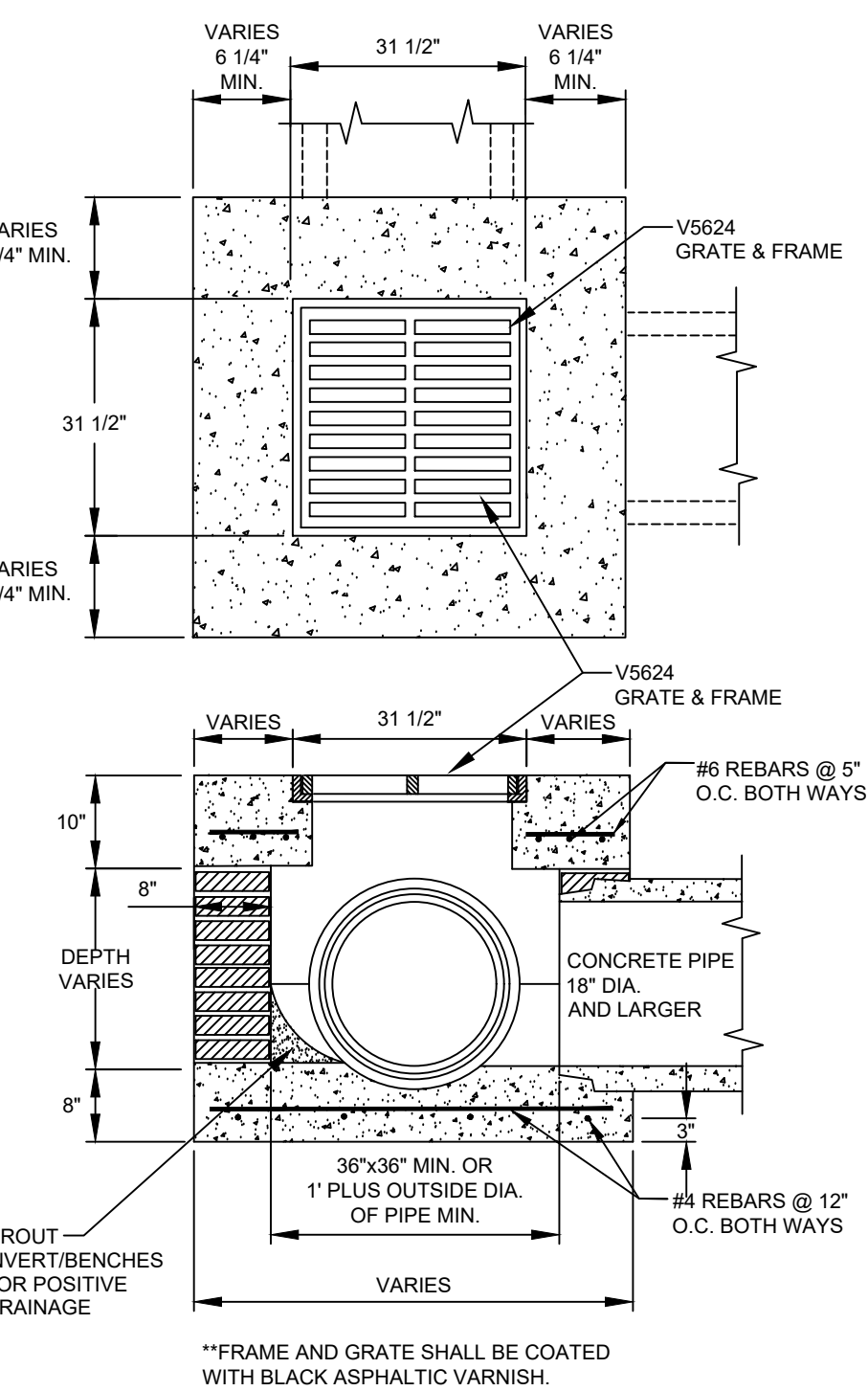
REINFORCEMENT SCHEDULE, TOP		
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR LESS	#4's @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4's @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR GREATER	#4's @ 8" E.W.	DIAGONAL @ COVER

REINFORCEMENT SCHEDULE, BASE			
SECTION		#4's @ 6" E.W.	
"A"		#4's @ 6" E.W.	
"B"		#6's @ 6" E.W.	

TABLE OF "W" DIMENSIONS				
PIPE SIZE	STRAIGHT	30"	45"	
24"	4'-0"	4'-0"	4'-10"	
30"	4'-0"	4'-7"	5'-8"	
36"	4'-0"	5'-3"	6'-5"	
42"	5'-3"	5'-11"	7'-3"	
48"	5'-10"	6'-7"	8'-0"	
60"	7'-0"	7'-10"	9'-8"	
DOUBLE FOR "A" SECTION ONLY				
24"	7'-0"	7'-10"	9'-5"	
30"	8'-2"	9'-2"	11'-0"	
36"	9'-4"	10'-6"	12'-6"	
42"	10'-6"	11'-10"	14'-2"	
48"	11'-8"	13'-2"	15'-10"	



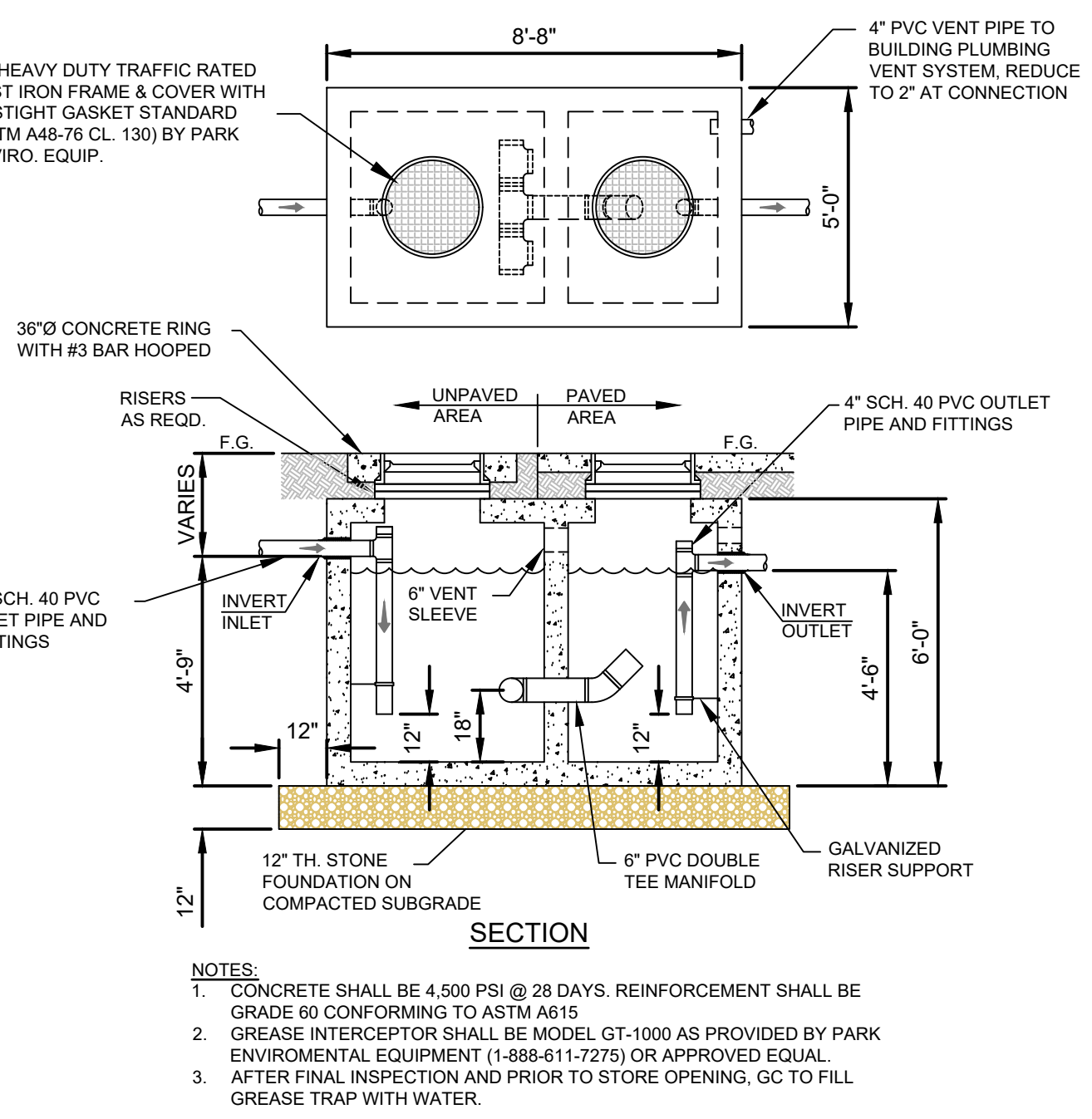
SECTION "A"-A
COMBINATION INLET
N.T.S.



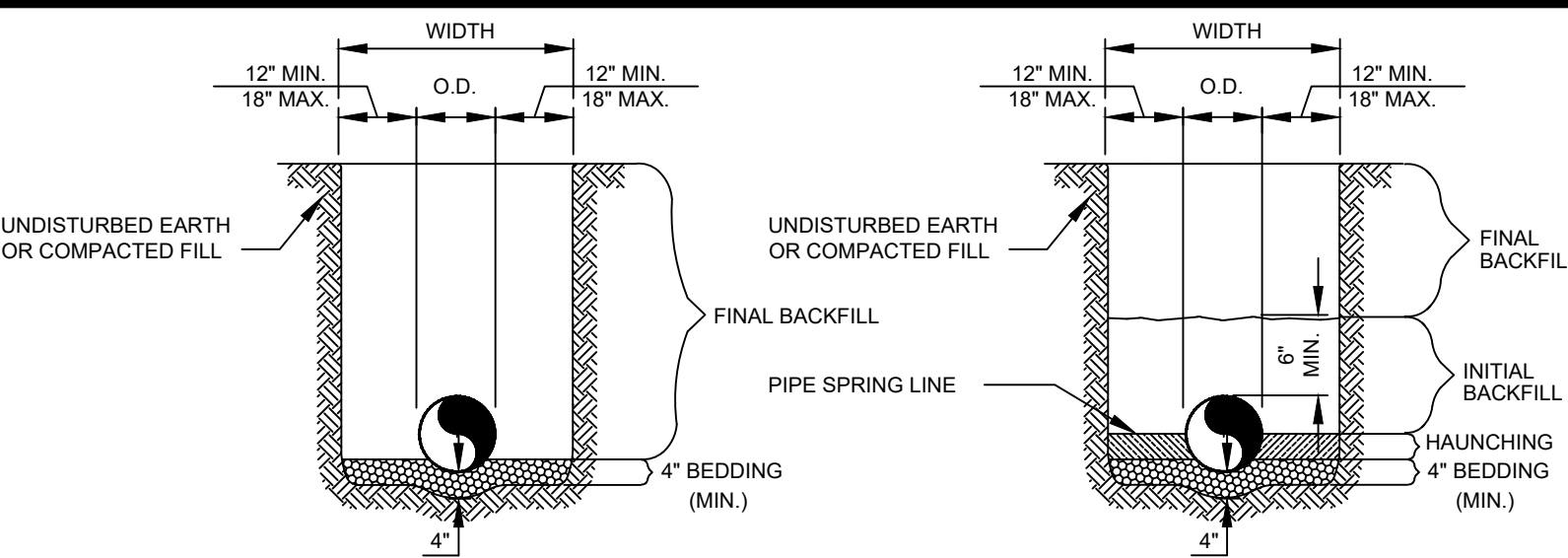
AREA INLET
N.T.S.

- NOTES:
1. CONTRACTOR TO PROVIDE AND INSTALL WOODFORD MODEL S-3 SANITARY YARD HYDRANT PER MANUFACTURER'S SPECIFICATIONS. SEE UTILITY PLAN TO DETERMINE LOCATION.
 2. FREEZELESS YARD HYDRANT TO BE LOCATED BETWEEN CANOPY COLUMN AND FUEL ISLAND FOR PROTECTION.
 3. REFER TO TANK/PIPING PLANS TO VERIFY LOCATION OF TRASH CAN LOCATION PRIOR TO INSTALLATION.

FREEZELESS HYDRANT WITH HOSE BIBB
N.T.S.

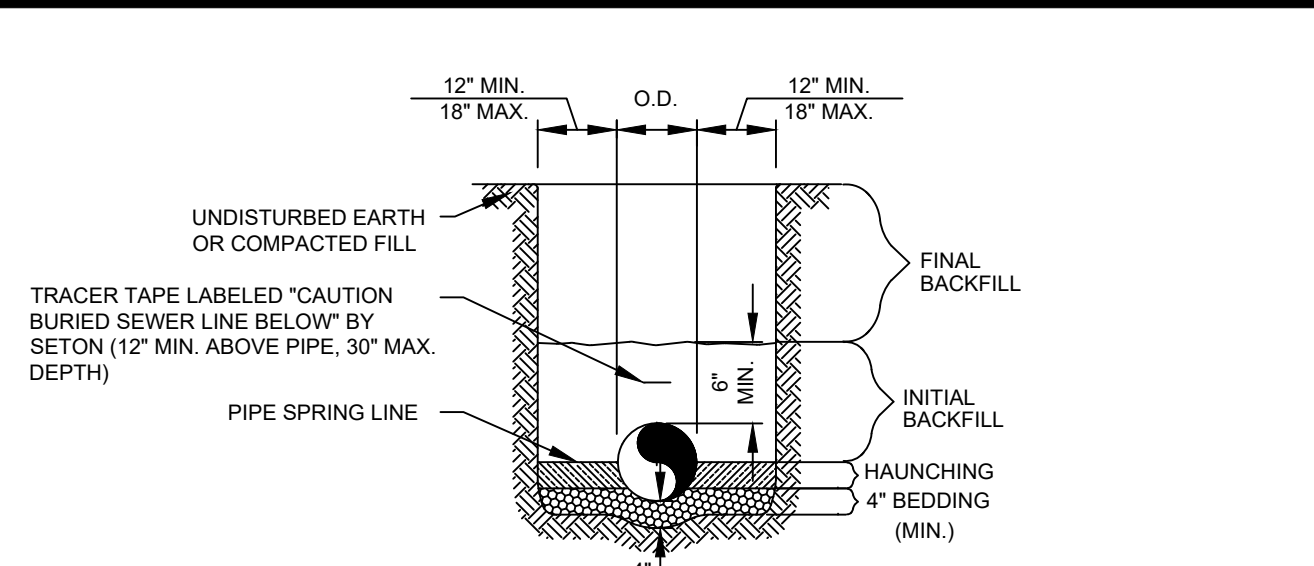


1,000 GAL. GREASE INTERCEPTOR
N.T.S.



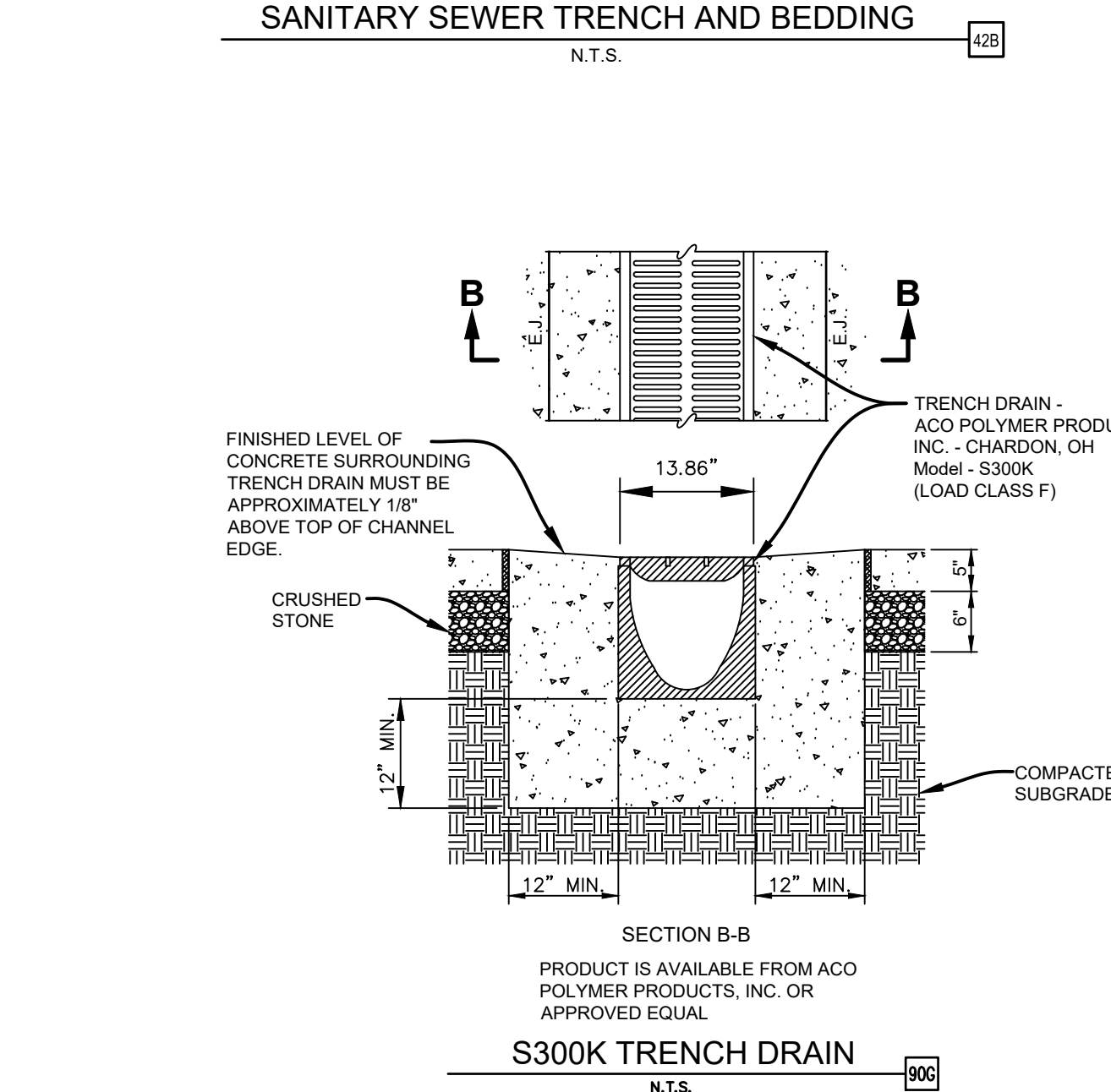
STORM SEWER TRENCH AND BEDDING
N.T.S.

- GENERAL NOTES:
1. BEDDING SHALL BE CLASS I-A WORKED BY HAND. IF GROUNDWATER IS ANTICIPATED, THEN BEDDING SHALL BE CLASS I-B COMPACTED TO 85% STANDARD PROCTOR.
 2. HAUNCHING SHALL BE WORKED AROUND THE PIPE BY HAND TO ELIMINATE VOIDS AND SHALL BE CLASS I-A OR CLASS I-B OR CLASS II COMPACTED TO 85% PROCTOR.
 3. INITIAL BACKFILL SHALL BE CLASS I-A WORKED BY HAND, OR CLASS I-B OR CLASS II COMPACTED TO 85% STANDARD PROCTOR.
 4. INITIAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS III COMPACTED TO 90% STANDARD PROCTOR.
 5. FINAL BACKFILL SHALL BE CLASS I, II, OR III COMPACTED AS NOTED IN NOTES 3. AND 4.
 6. FINAL BACKFILL NOT UNDER PAVED AREAS CAN BE CLASS I-V-A COMPACTED TO 95% STANDARD PROCTOR.
 7. ALL MATERIALS ARE CLASSIFIED IN ACCORDANCE WITH ASTM D 2321-89.
 8. ALL MATERIALS SHALL BE INSTALLED IN MAXIMUM 8\"/>
 9. FILL SALVAGED FROM EXCAVATION SHALL BE FREE OF DEBRIS, ORGANICS AND ROCKS LARGER THAN 3\"/>
 10. ALL TRENCH EXCAVATIONS SHALL BE SLOPED, SHORED, SHEETED, BRACED, OR OTHERWISE SUPPORTED IN COMPLIANCE WITH OSHA REGULATIONS AND LOCAL ORDINANCES.
 11. JOINTS SHALL BE WATERTIGHT AND WRAPPED WITH GEOTEKILE FABRIC FOR A MINIMUM OF 18 INCHES ON EACH SIDE OF JOINT. FABRIC SHALL BE ADEQUATELY SECURED AROUND CIRCUMFERENCE OF PIPE.

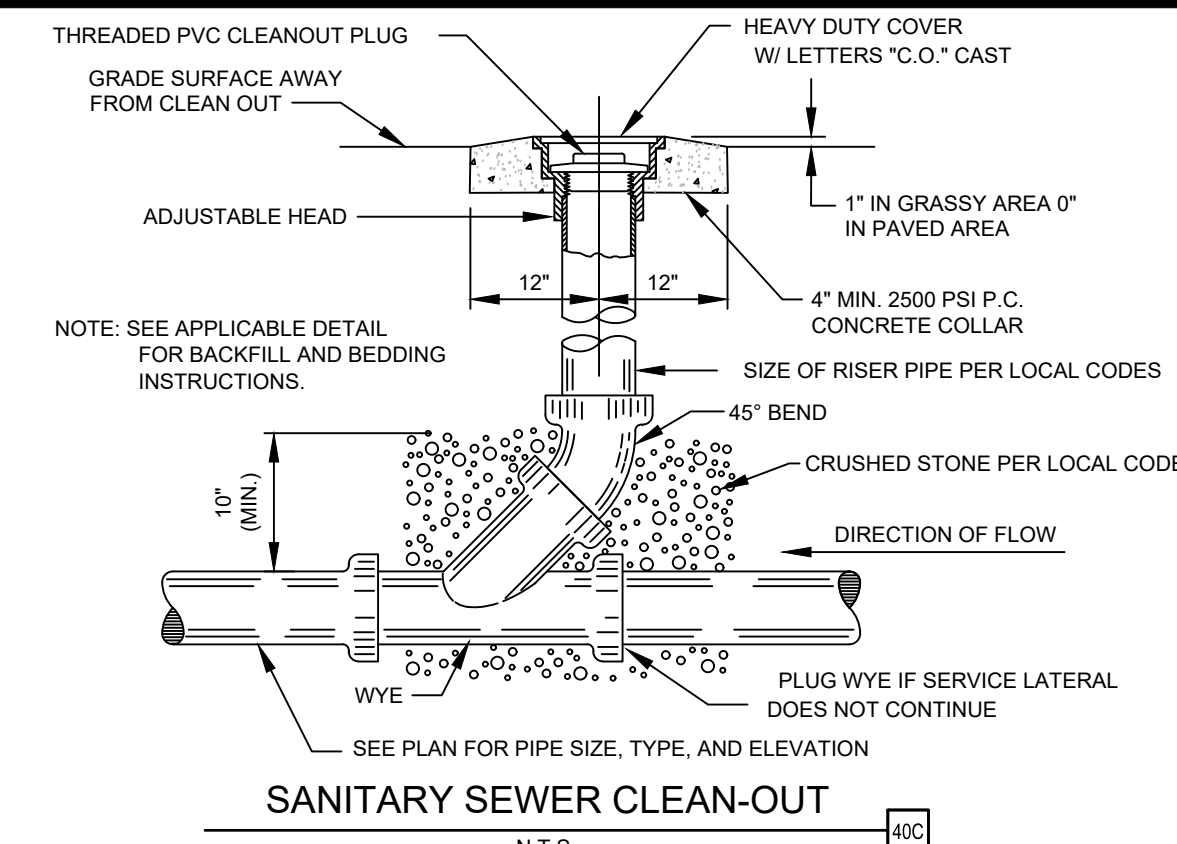


SANITARY SEWER TRENCH AND BEDDING
N.T.S.

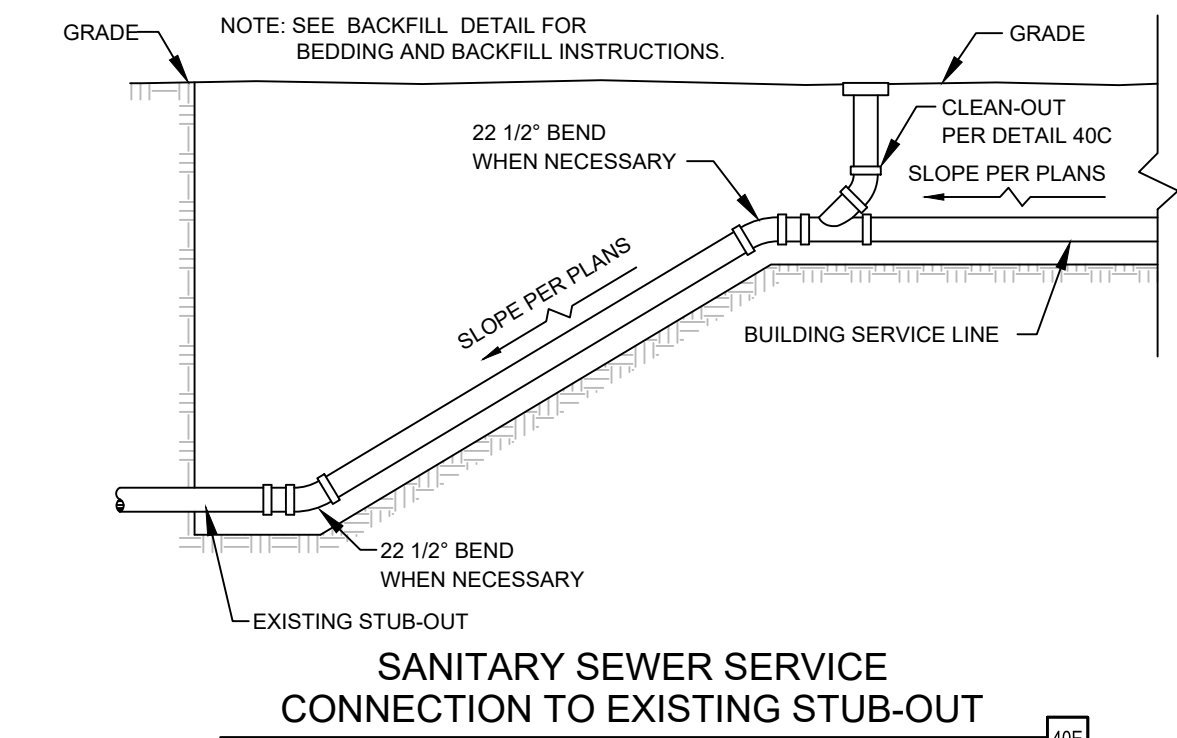
- GENERAL NOTES:
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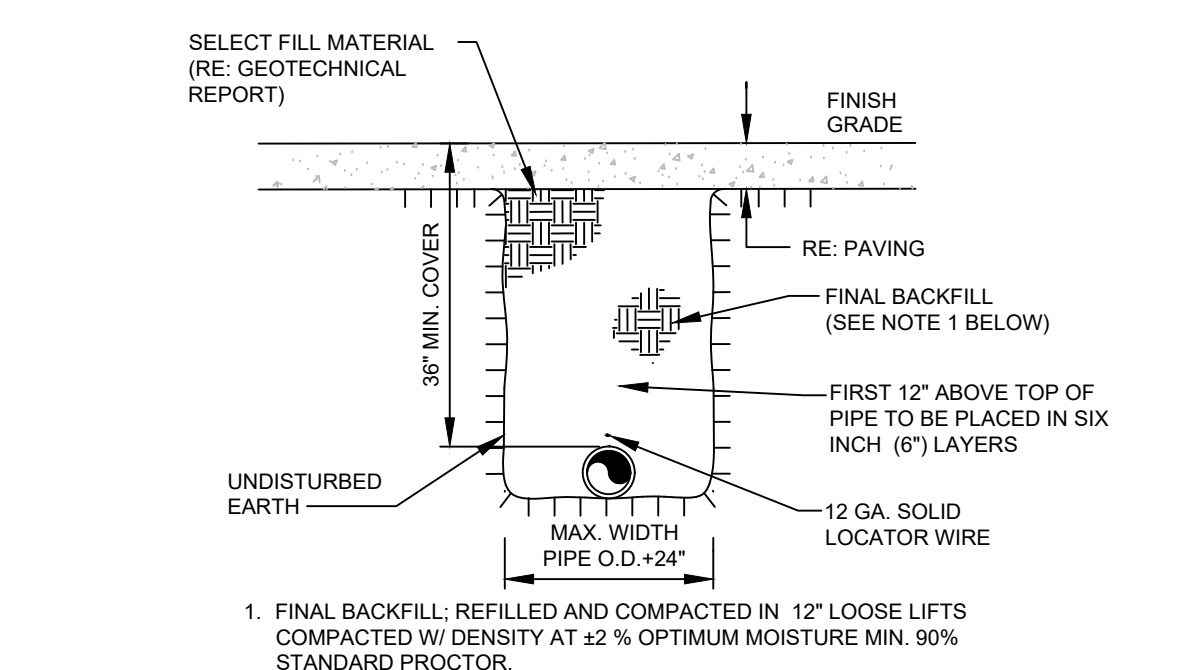
S300K TRENCH DRAIN
N.T.S.



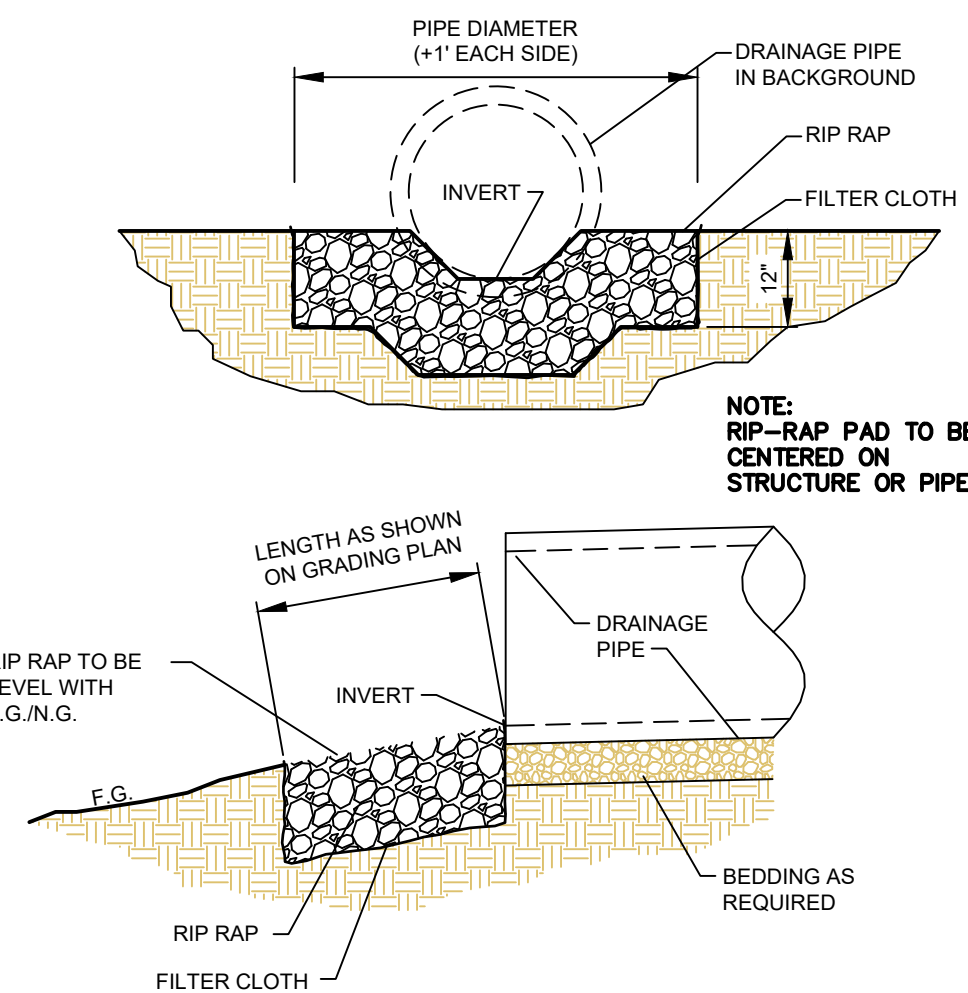
SANITARY SEWER CLEAN-OUT
N.T.S.



SANITARY SEWER SERVICE CONNECTION TO EXISTING STUB-OUT
N.T.S.

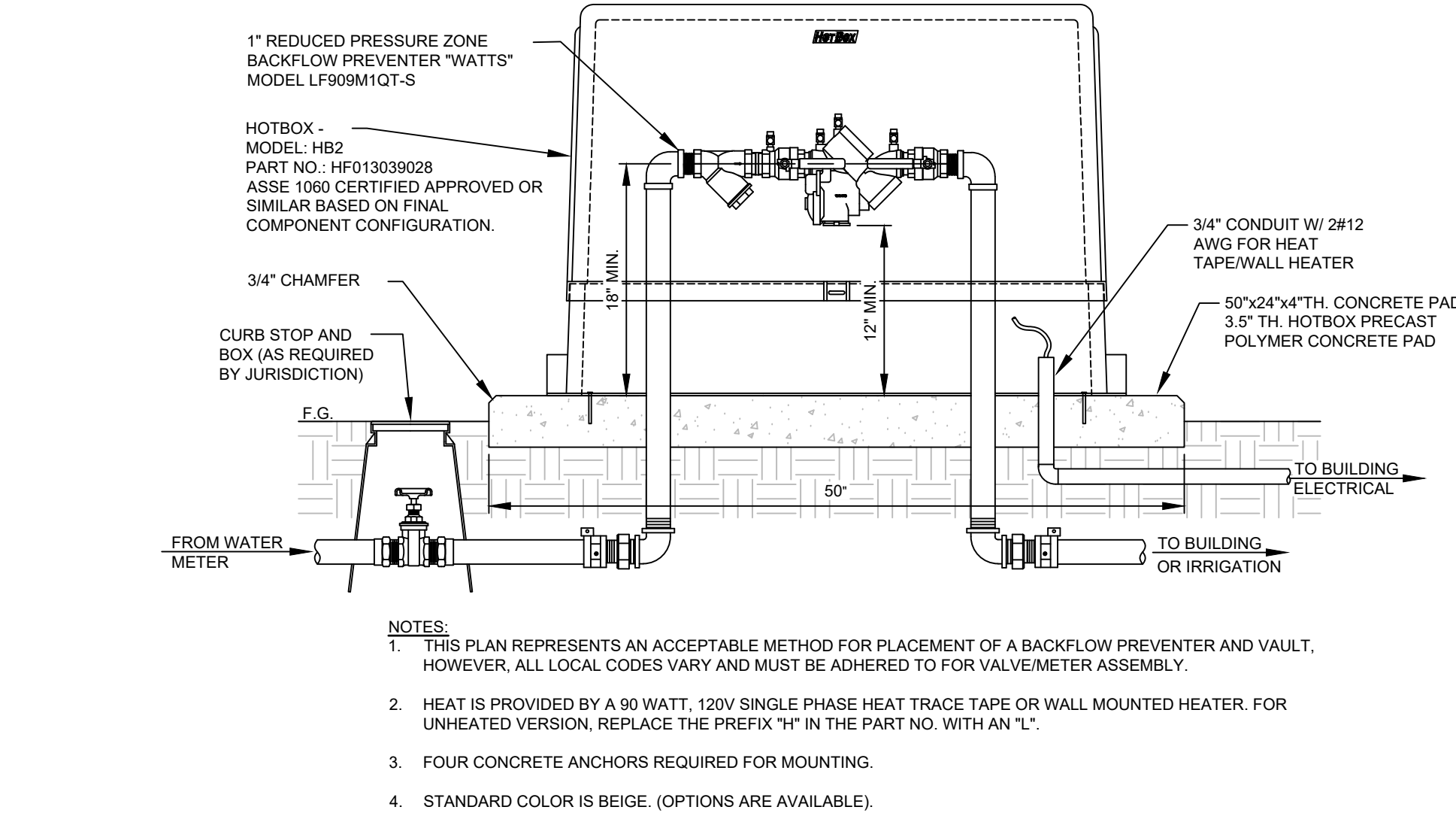


TYPICAL TRENCH DETAIL (FOR WATER/ELECTRICAL/TELEPHONE SERVICE)
N.T.S.



STONE MATERIAL SHALL BE FIELD STONE OR ROUGH, UNEVEN QUARRY STONE AS NEARLY UNIFORM IN SECTION AS IS PRACTICAL PLACED IN 12\"/>

RIP RAP OUTFALL
N.T.S.



ABOVE GROUND REDUCED PRESSURE BACKFLOW PREVENTER 2 1/2\"/>

SHEET NO. C-10

JASON L. TOOLE, P.E.
FL P.E. No. 66531

JASON L. TOOLE, P.E.
Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

DETAILS

MURPHY EXPRESS
2785 S MONROE ST
TALLAHASSEE, FLORIDA

REV-4

9/19/22

T.H.H.

DATE

PRN

PM

A.M.D.

DES

DRW

J.C.H.

JOB NO. M3882

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Building Better Communities Together

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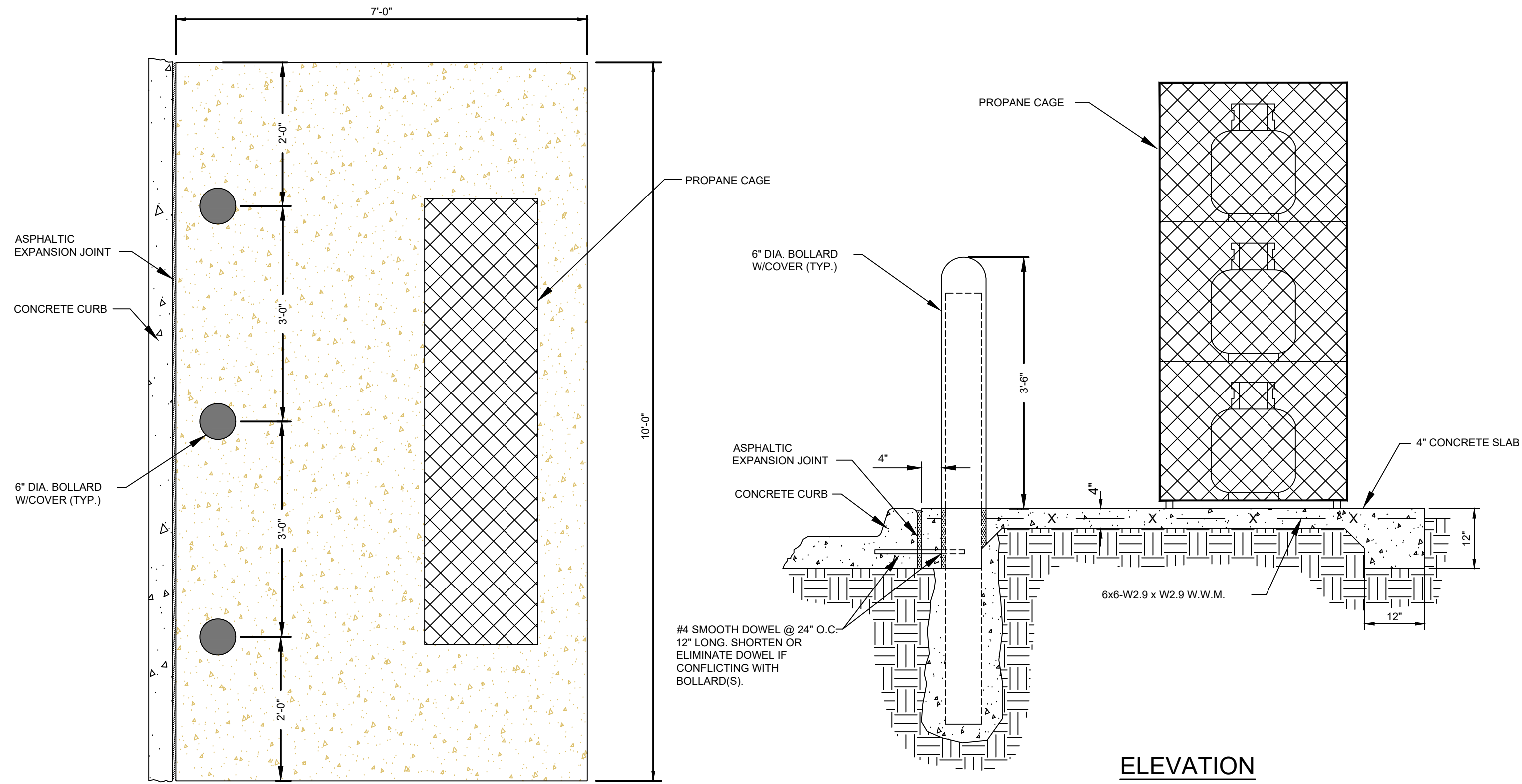
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EL DORADO, AR 71731-7000

MURPHY USA

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TOP VIEW

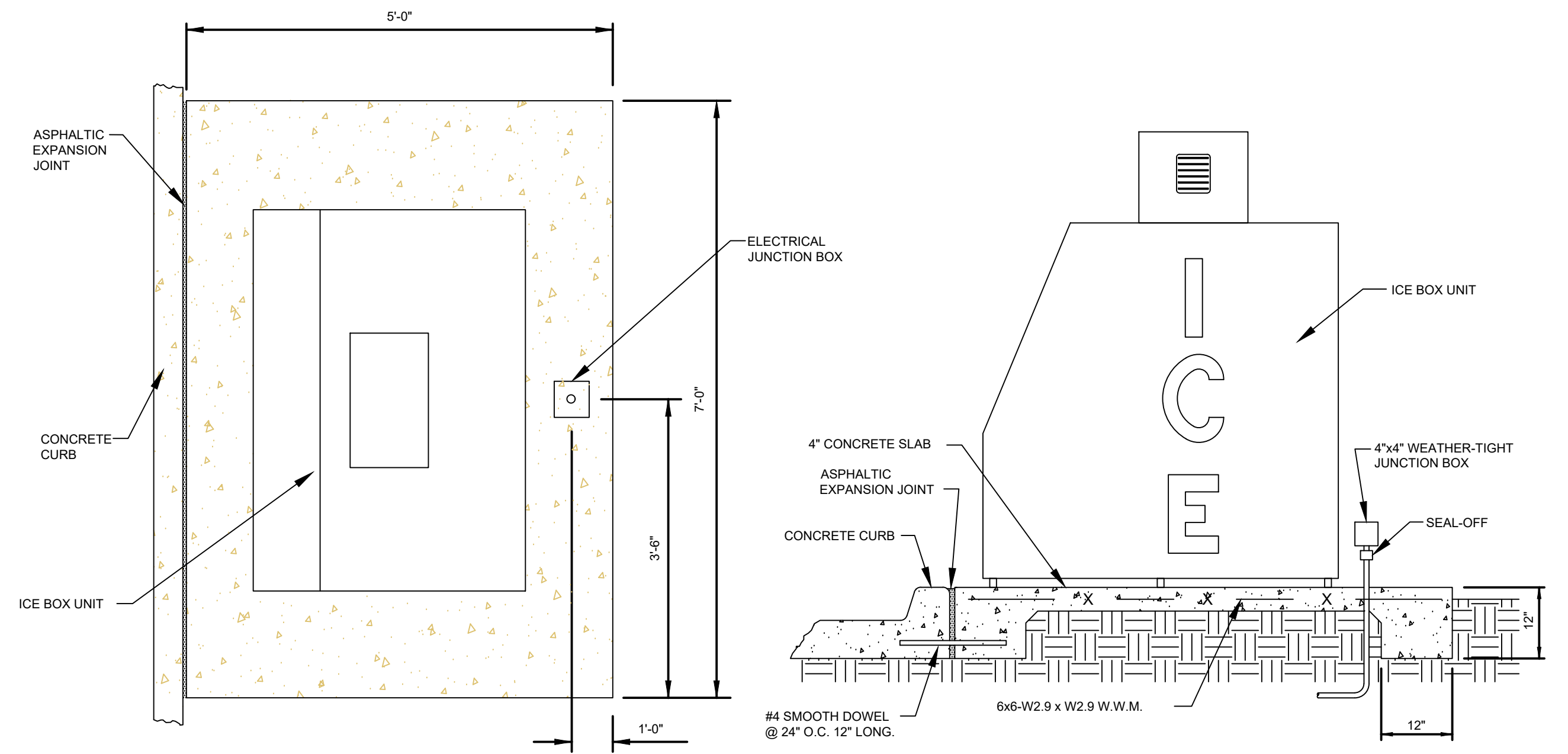
NOTE: SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.)

PROPANE MOUNTING SLAB DETAIL

N.T.S.

21U

ELEVATION



TOP VIEW

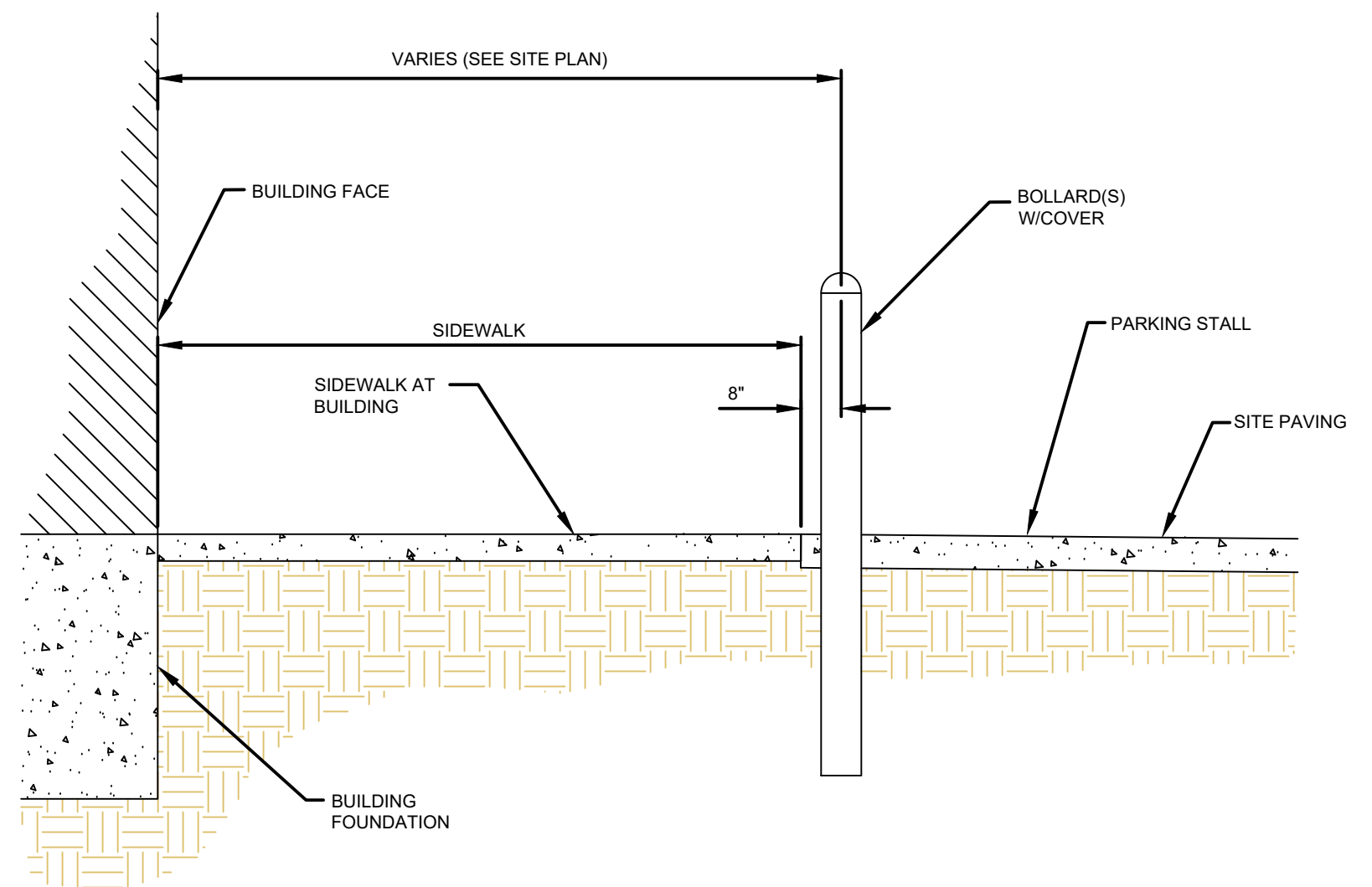
NOTE:
1. SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.)
2. SEE SITE PLAN FOR NUMBER OF ICE UNITS.

ICE BOX MOUNTING SLAB DETAIL

N.T.S.

21P

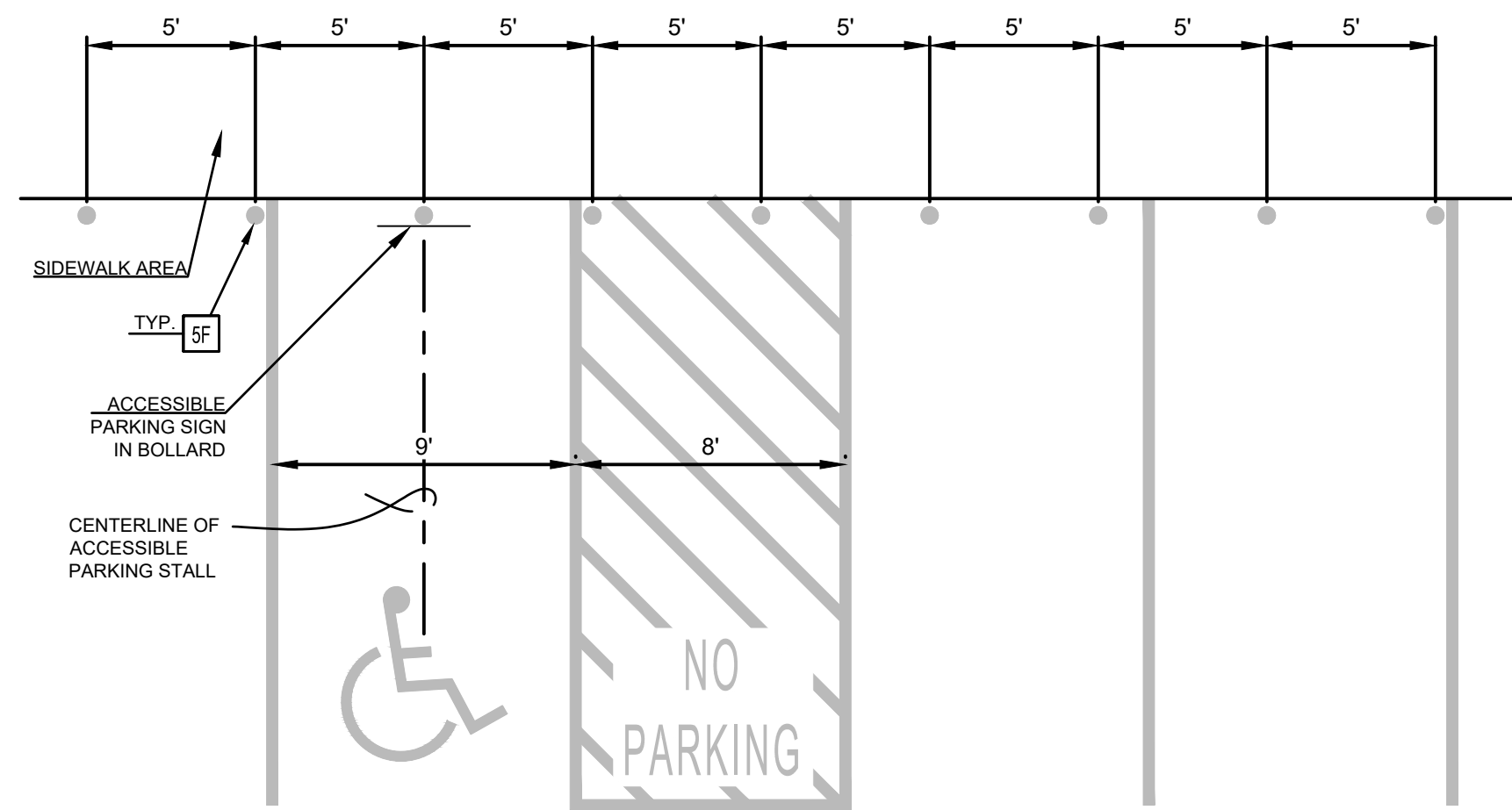
ELEVATION



BOLLARD LOCATION AT BUILDING

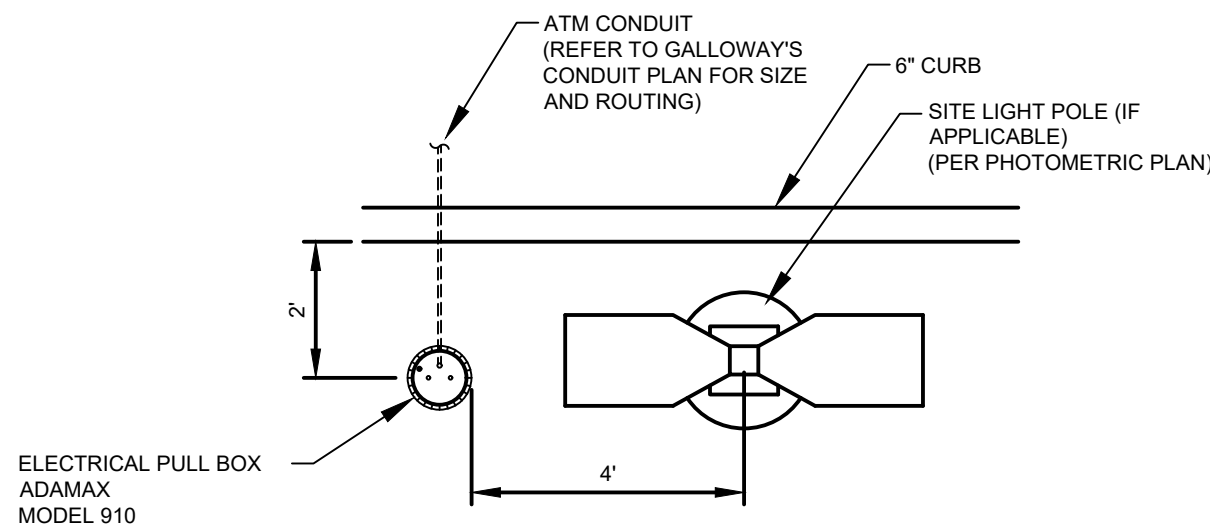
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20K



BOLLARD SPACING @ BUILDING

SCALE: 1"=5'

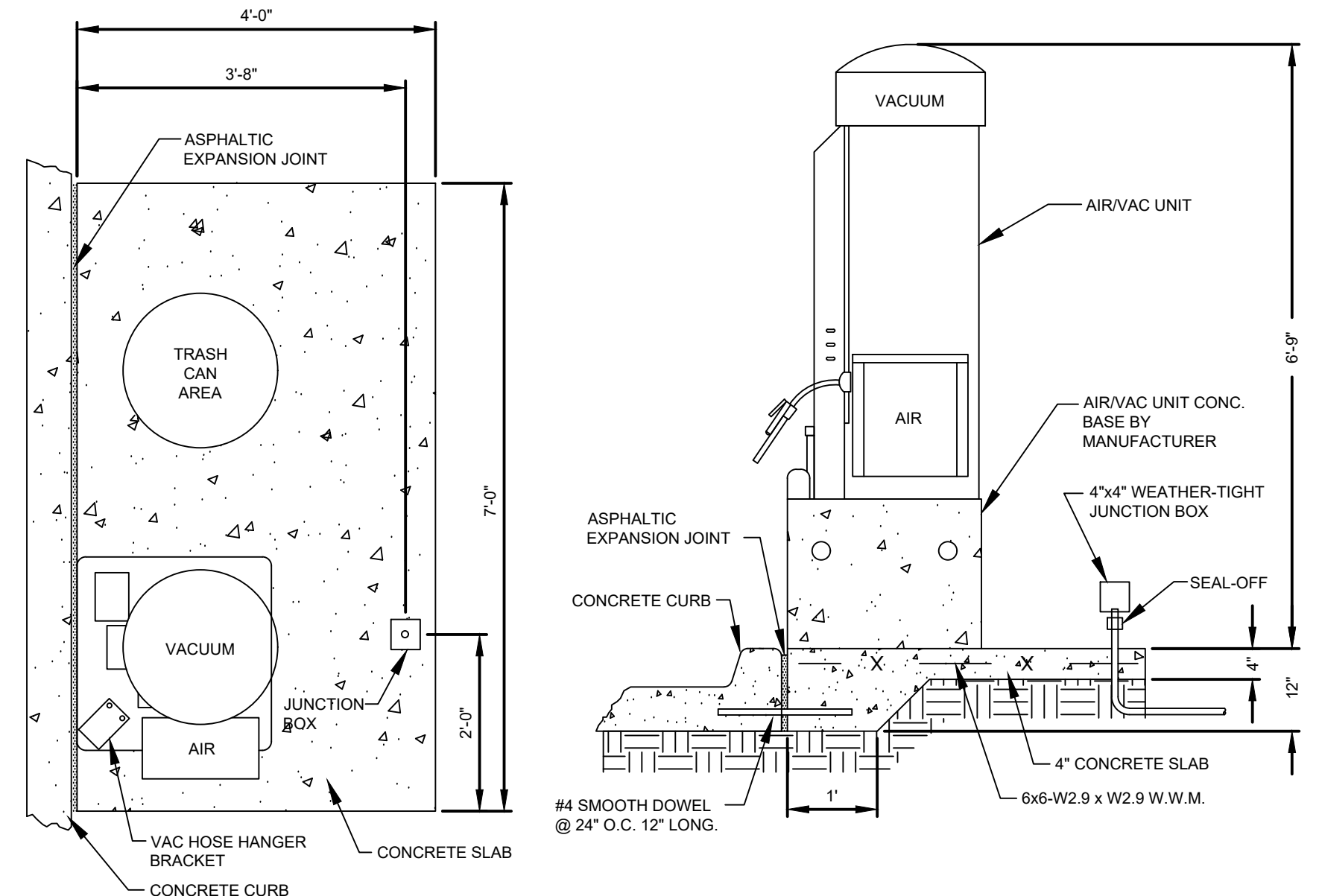


- NOTE:
1. FUTURE ATM PAD, BOLLARDS AND INSTALLATION BY ATM EQUIPMENT SUPPLIER.
2. PULL BOX AND PULL STRING TO BE PROVIDED AND INSTALLED BY GC.
3. PULL BOX TO BE INSTALLED BELOW GRADE WITH TOP TO BE SET FLUSH WITH FINISH GRADE.
4. ELECTRICAL CONDUIT AND PULL STRING TO BE STUB INTO PULL BOX AND CAPPED FOR FUTURE CONNECTION OF ATM.

ELECTRICAL PULL BOX FOR FUTURE ATM

N.T.S.

21V



NOTE: SLOPE PAD FOR POSITIVE DRAINAGE (0.5% MIN.-1% MAX.)

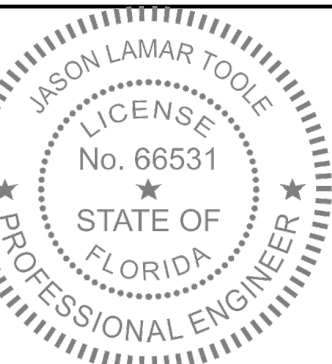
AIR/VAC MOUNTING SLAB DETAIL

N.T.S.

21G

SHEET NO.

C-11



JASON L. TOOLE, P.E.
FL P.E. No. 66531
Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

JOB NO. M3682

JCH.

DRW

A.M.D.

DES

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PM

T.H.H.

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DATE

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MURPHY USA

CONCRETE SPECIFICATIONS

A. CEMENT

- 1. PROVIDE AN APPROVED STANDARD BRAND PORTLAND CEMENT CONFORMING TO ASTM C 150.
- 2. PROVIDE TYPE I NORMAL STRENGTH OR TYPE III HIGH EARLY STRENGTH.

B. AIR ENTRAINMENT

- 1. PROVIDE AN APPROVED STANDARD BRAND TYPE A ADMIXTURE CONFORMING TO ASTM C 494.
- 2. PROVIDE AIR ENTRAINED CONCRETE FOR ALL EXPOSED CONCRETE TO BE FINISHED INCLUDING FOUNDATIONS, WALKS, PAVEMENTS, AND RETAINING WALLS.
- 1. AIR ENTRAINED IS TO BE A MINIMUM OF FIVE PERCENT (5%) AND MAXIMUM OF SEVEN PERCENT (7%) BY VOLUME. EVALUATE CONCRETE TEMPERATURE TO DETERMINE DOSAGE OF AIR ENTRAINING ADMIXTURE.
- 2. MEASURE THE AIR CONTENT AT THE POINT OF DISCHARGE INTO FORMS OR AT TRUCK.

C. FINE AGGREGATES

- 1. PROVIDE FINE AGGREGATES CONFORMING TO ASTM C 33 CONSISTING OF NATURAL SAND HAVING CLEAN, HARD, STRONG, DURABLE, UNCOATED GRAINS, FREE OF INJURIOUS AMOUNTS OF DUST LUMPS, SOFT OR FLAKY PARTICLES, SHALE, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES.
- 2. FINE AGGREGATES RANGE PASSING THROUGH A NO. 100 SIEVE (0% TO 7%).
- 3. IN ADDITION NOT MORE THAN 45 PERCENT IS TO BE RETAINED BETWEEN ANY TWO CONSECUTIVE SIEVES.

D. COARSE AGGREGATES

- 1. PROVIDE COARSE AGGREGATES CONFORMING TO ASTM C 33 CONSISTING OF CRUSHED STONE OR WASHED GRAVEL HAVING A CLEAN, HARD, STRONG, DURABLE, UNCOATED, PARTICLE FREE FROM INJURIOUS AMOUNTS OF SOFT OR FLAKY PIECES, ALKALI, ORGANIC MATTER, OR OTHER DELETERIOUS SUBSTANCES.
- 2. PROVIDE COARSE AGGREGATE WITH A MAXIMUM OF 1-1/2 INCHES, WITH A MINIMUM OF 95 PERCENT PASSING A 1-1/2 INCH SIEVE.
- 3. NOT MORE THAN TEN PERCENT (10%) IS TO PASS A NO. 4 SIEVE.

E. WATER

- 1. USE CLEAN WATER FREE OF INJURIOUS AMOUNTS OF OILS, ACIDS, ALKALI, SILTS, ORGANIC MATERIALS, OR OTHER SUBSTANCES THAT MAY BE DELETERIOUS TO CONCRETE OR STEEL.

F. CONCRETE MIX DESIGN

- 1. REQUIRE BATCH TICKETS TO BE FURNISHED UPON DELIVERY OF THE CONCRETE TO ENSURE CONCRETE MEETS THE SPECIFICATION. CONTRACTOR TO PROVIDE PLANT BATCH CERTIFICATIONS TO OWNER'S FIELD REPRESENTATIVE.
- 2. PROVIDE CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS (3,000 PSI FOR FOOTINGS/RETAINING WALLS) WITH A MINIMUM OF SIX BAGS (564 LBS.) OF CEMENT IN EACH CUBIC YARD OF CONCRETE CONFORMING TO ASTM C 94.
- 3. DO NOT EXCEED THE MAXIMUM WATER CEMENT RATIO OF 0.53.
- 4. PROVIDE CONCRETE WITH A FOUR INCH DESIGN SLUMP WHEN TESTED WITH A STANDARD SLUMP CONE CONFORMING TO ASTM C 143. SLUMP SHALL BE 3"-5".
 - a) IF CONCRETE DEVELOPS CONSISTENCY OF DIFFICULT WORKABILITY, THEN A SUPER PLASTICIZER ADMIXTURE MAY BE USED WHEN APPROVED BY OWNER.
 - b) DO NOT ADD WATER TO INCREASE SLUMP/EXCEED WATER CEMENT RATIO.
- 5. CALCIUM CHLORIDE SHALL NOT BE USED.
- 6. FLY ASH SHALL NOT EXCEED CEMENT QUANTITY BY MORE THAN 15% BY WEIGHT.

G. PLACING CONCRETE

- 1. MIX AND PLACE CONCRETE FOLLOWING ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- 2. SCHEDULE POUR THAT ONCE STARTED REMAINS A CONTINUOUS OPERATION UNTIL THE PARTICULAR SECTION OR PANEL HAS BEEN COMPLETED.
- 3. PROVIDE CONSTRUCTION JOINT TYPE/LOCATION AS INDICATED ON PAVING PLAN.
- 4. DEPOSIT CONCRETE INTO THE FINAL POSITION AT THE SPECIFIED SLUMPS WITHOUT SEGREGATION BY RE-HANDLING OR FLOWING.
 - a) DEPOSIT CONCRETE AT A RATE THAT CONCRETE REMAINS PLASTIC AND FLOWABLE INTO THE SPACES BETWEEN THE REINFORCING BARS.
 - b) DO NOT DEPOSIT FRESH CONCRETE ON CONCRETE THAT HAS HARDENED SUFFICIENTLY TO CAUSE FORMATION OF SEAMS OR PLANES OF WEAKNESS WITHIN THE SECTION OR PANEL.
 - c) DO NOT DEPOSIT PARTIALLY HARDENED CONCRETE OR CONCRETE THAT HAS BEEN CONTAMINATED BY FOREIGN MATERIALS.
 - d) DO NOT RE-TEMPER CONCRETE.
- 5. THOROUGHLY SCREED AND COMPACT CONCRETE BY MEANS OF MECHANICAL VIBRATORY POWER SCREED SUPERVISED BY EXPERIENCED PERSONNEL ON ALL FLATWORK.
 - a) PROVIDE SUFFICIENT VIBRATION INTENSITY TO CAUSE FLOW OR SETTLEMENT AROUND REINFORCEMENT, EMBEDDED ITEMS, AND CORNERS OF THE FORMS; BUT NOT LONG ENOUGH TO CAUSE SEGREGATION OF THE MIX.
 - b) SUPPLEMENT MECHANICAL VIBRATION BY HAND SPADING IN CORNERS AND ANGLES OF THE FORMS AND ALONG FORM SURFACES WHILE THE CONCRETE IS PLASTIC TO ENSURE EVEN DENSE SURFACES FREE FROM AGGREGATE POCKETS OR HONEYCOMBS.
- 6. PROTECT CONCRETE FROM EXCESSIVE HEAT AND PREMATURE DRYING BY THE USE OF KRAFT PAPER AND WATER MIST WHEN SITE CONDITIONS DEMAND.
- 7. COAT CONCRETE IMMEDIATELY AFTER FINISHING IS COMPLETE USING THE SPECIFIED CURING AGENTS NO LONGER THAN 30 MINUTES FOLLOWING FINISHING IF EVAPORATION IS OCCURRING.
 - a) CURING COMPOUND SHALL BE SAFECURE 1000 (WHITE PIGMENTED) BY CHEMASTERS APPLIED PER MANUFACTURER'S SPECIFICATIONS.
- 8. IF SAW CUTTING IS EMPLOYED, IT MUST OCCUR WITHIN 6 HOURS AFTER INITIAL SET.
 - a) SPALLING DUE TO SAW CUTTING ACTIONS MAY RESULT IN REJECTION OF THE CONCRETE WORK.
- 9. PROTECT CONCRETE AREA STRUCTURALLY FROM WINDY CONDITIONS UNTIL PROPERLY CURED.
- 10. FINISH SHALL BE LIGHT BROOM.

H. FINISH

- 1. PAVEMENT SURFACE SHALL BE FINISHED BY EITHER MACHINE OR HAND SUITABLE FOR ACCEPTANCE BY OWNER. HAND FINISH SHALL ONLY BE ALLOWED FOR IRREGULAR DIMENSION AREAS WHERE MECHANICAL EQUIPMENT IS IMPRACTICAL OR IN CASE OF EQUIPMENT BREAKDOWN AFTER CONCRETE IS PLACED. TAKE CARE NOT TO "HARD" TROWEL OR OVER DENSIFY PAVEMENT (NO MORE THAN 2 PASSES).
- 2. AFTER STRIKING OFF AND CONSOLIDATING CONCRETE, SMOOTH SURFACE BY MECHANICAL SCREEDING AND FLOATING TO MINIMIZE OR ELIMINATE HAND FINISHING. ADJUST FLOATING TO COMPACT SURFACE AND PRODUCE UNIFORM TEXTURE. AFTER FLOATING, TEST SURFACE FOR TRUENESS WITH 10'-0" STRAIGHTEDGE. DISTRIBUTE CONCRETE AS REQUIRED TO REMOVE SURFACE IRREGULARITIES AND REFLOAT REPAIRED AREAS TO PROVIDE CONTINUOUS SMOOTH FINISH WITH MECHANICAL TROWEL.
- 3. WORK EDGES OF SLABS AND FORMED JOINTS WITH EDGING TOOL. ROUNDING EDGE TO 1/2-INCH RADIUS. ELIMINATE TOOL MARKS ON CONCRETE SURFACE. AFTER COMPLETION OF FLOATING AND TROWELLING, WHEN EXCESS MOISTURE OR SURFACE SHEEN HAS DISAPPEARED, COMPLETE SURFACE FINISHING, AS FOLLOWS:
 - a) INCLINED SLAB SURFACES: PROVIDE COARSE, NONSLIP FINISH BY SCORING SURFACE WITH STIFF-BRISTLED BROOM PERPENDICULAR TO FLOW OF TRAFFIC SO AS TO PRODUCE REGULAR CORRUGATIONS NOT OVER 1/16 OF AN INCH DEEP.
 - b) PAVING: PROVIDE COARSE, NONSLIP FINISH BY SCORING SURFACE WITH STIFF-BRISTLED BROOM PERPENDICULAR TO FLOW OF TRAFFIC SO AS TO PRODUCE REGULAR CORRUGATIONS NOT OVER 1/16 OF AN INCH DEEP.
 - c) TINE FINISH: MAY BE UTILIZED AT EACH OF THE ENTRANCE DRIVES (SLOPE > 3%) AT THE OWNER'S DISCRETION AND SHALL PROVIDE FOR A 3/8 INCH MINIMUM SPACING AND 1 ½ INCH MAXIMUM SPACING. GROOVES PRODUCED IN CONCRETE SHALL BE 3/16 INCH IN DEPTH WITH A MINIMUM DEPTH OF 1/8 INCH.
- 4. DO NOT REMOVE FORMS FOR 24 HOURS AFTER CONCRETE HAS BEEN PLACED. AFTER FORM REMOVAL, CLEAN ENDS OF JOINTS, BACK OF CURBS AND POINT UP MINOR HONEYCOMBED AREAS. REMOVE AND REPLACE AREAS OR SECTIONS WITH MAJOR DEFECTS, AS DIRECTED BY OWNER.
- 5. SWEEP CONCRETE PAVEMENT AND WASH FREE OF STAINS, DISCOLORATIONS, DIRT AND OTHER FOREIGN MATERIAL PRIOR TO FINAL INSPECTION.
- 6. PROTECT CONCRETE FROM DAMAGE UNTIL ACCEPTANCE OF WORK. EXCLUDE TRAFFIC FROM PAVEMENT FOR AT LEAST 14 DAYS AFTER PLACEMENT OR UNTIL 75% OF SPECIFIED STRENGTH IS ACHIEVED.

CONCRETE (CONTINUED)

I. COLD WEATHER REQUIREMENTS

- 1. FOLLOW THE REQUIREMENTS OF ACI 308.1-90 AND THE FOLLOWING.
 - a) REFER TO: "RECOMMENDED PRACTICES FOR COLD WEATHER MASONRY CONSTRUCTION" AS PUBLISHED BY INTERNATIONAL MASONRY INDUSTRY ALL WEATHER COUNCIL FOR TYPICAL COLD WEATHER MASONRY PRACTICES TO BE FOLLOWED.
 - b) PROVIDE ADEQUATE EQUIPMENT FOR HEATING CONCRETE MATERIALS, AND FOR PROTECTION OF THE CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.
 - c) MAINTAIN CONCRETE MATERIALS, REINFORCEMENT, FORM WORK, FILLERS, AND GROUND TO BE IN CONTACT WITH THE CONCRETE FREE OF FROST. DO NOT USE FROZEN MATERIALS OR MATERIALS CONTAINING ICE.
 - d) PROVIDE CONCRETE, DELIVERED IN COLD WEATHER, WITH THE FOLLOWING TEMPERATURES

AIR TEMP.	MIN. CONCRETE TEMP.
30-40 °F	60 °F
0-30 °F	65 °F
BELOW 0 °F	70 °F
- e) WHEN PRODUCING CONCRETE WITH HEATED AGGREGATES, HEATED WATER OR BOTH, DO NOT ALLOW CONCRETE TO EXCEED 90°F DURING PRODUCTION OR TRANSPORTATION.
- f) ALL CONCRETE SLABS PLACED AT AIR TEMPERATURES FROM 20°F TO 50°F MAY HAVE AN ACCELERATING WATER REDUCING ADMIXTURE ADDITIVE ADDED TO ACCELERATE SETTING TIME AND STRENGTH ADMIXTURE COMPLYING WITH ASTM C 494, TYPE C.
 - 1) ACCEPTABLE ADMIXTURES ARE EUCLID CHEMICAL COMPANY'S "ACCELGAURD 90", OR EQUAL PRODUCTS BY W.R. MEADOWS, INC. OR W.R. GRACE & CO.
 - (a) ADD ACCELGUARD 80 W / WATER & AGGREGATE TO THE READY MIX CONCRETE TRUCK, BUT DO NOT DISPENSE ONTO DRY CONCRETE.
 - (b) FOR TEMPERATURES 32° F - 60° F, ADD AT A RATE OF 16OZ./100 LBS. OF CONCRETE.
 - (c) FOR TEMPERATURES BELOW 32° F, HEAT AGGREGATE AND USE WARM WATER SO THAT WHEN MIXED CONCRETE TEMPERATURE WILL BE ABOVE 60°
- 2) FOLLOW THE MANUFACTURER'S INSTRUCTION FOR THE QUANTITY TO BE ADDED TO THE CONCRETE MIX, DEPENDING UPON THE AMBIENT TEMPERATURE, DESIRED RATE OF ACCELERATION, EARLY STRENGTH GAIN, AND STRIPPING SCHEDULE.
- a) MAINTAIN CONCRETE ABOVE 50°F IN A MOIST CONDITION FOR A MINIMUM OF SEVEN DAYS AFTER PLACEMENT FOLLOWING THE RECOMMENDATIONS OF ACI 308-92.

J. HOT WEATHER REQUIREMENTS

- 1. FOLLOWING THE REQUIREMENTS OF ACI 308R.
- 2. DURING HOT WEATHER, TAKE STEPS TO REDUCE CONCRETE TEMPERATURE AND WATER EVAPORATION BY PROPER ATTENTION TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING.
- 3. THE PREFERRED PROTECTION IS A COVERING OF KRAFT PAPER, CONFORMING TO ASTM C 171, FOR A TWENTY FOUR HOUR PERIOD AFTER PLACEMENT - VERIFY WITH PM.

K. CONCRETE FORMWORK

- 1. PROVIDE DRESSED LUMBER OR MANUFACTURED FORMS CONFORMING TO THE SHAPE, LINES, AND DIMENSIONS OF CONCRETE STRUCTURES INDICATED ON THE DRAWINGS. FREE FROM DEFECTS AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF MORTAR.
- 2. ALL WOODEN FORMS TO BE NO LESS THAN THE SPECIFIED DEPTH OF THE SLAB TO BE POURED, AND NOT LESS THAN NOMINAL 2" X 4" SIZE.
- 3. STAKING FOR STRAIGHT SECTIONS SHALL OCCUR NOT LESS FREQUENTLY THAN EVERY FOUR FEET AND SHALL BE BOTH INSIDE AND OUTSIDE OF THE FORM.
- 4. FOR CURVES, STAKING SHALL OCCUR NOT LESS THAN EVERY FOOT, AND SHALL BE BOTH INSIDE AND OUTSIDE OF THE FORM.
- 5. STEEL FORMS SHALL BE STAKED ACCORDING TO THEIR DESIGN REQUIREMENTS.
- 6. ALL REMOVABLE FORMS SHALL BE COATED WITH FORM - RELEASE OIL PRIOR TO PLACEMENT OF CONCRETE.
- 7. CYLINDRICAL FORMS SHALL BE OF NEW SONOTUBE OR EQUIVALENT DISPOSABLE MATERIALS.
 - a) THESE MATERIALS MUST BE REMOVED COMPLETELY AFTER USE. ISLAND FORMS SHALL BE POSITIONED USING MASONRY BLOCKING AND STEEL STAKES BOTH INSIDE AND OUTSIDE OF THE FORM, TO ACHIEVE AN AVERAGE AS PER REVEAL HEIGHT AS MEASURED AT THE CENTER OF ANY LONG SIDE OF THE ISLAND
- 8. THE SIDES OF THE ISLAND FORM SHALL BE SHIMMED AGAINST THE STAKES TO PROVIDE A PERFECTLY PLUMB FREEBOARD.
- 9. ALL EDGES CREATED BY REMOVABLE FORMS SHALL BE TOOL-RADIUSED AFTER SURFACE FINISHING TO PROVIDE A SMOOTH BORDER ON ALL SLABS.
- 10. FORMS SHALL BE REMOVED NO SOONER THAN 24 HOURS FROM THE TIME OF THE POUR.
- 11. PROPERLY BRACE OR TIE FORMS TOGETHER TO MAINTAIN SHAPE AND POSITION.
- 12. PROVIDE SQUARE EDGE WOOD OR, IF AVAILABLE, METAL FORMS FOR FLOOR SLABS.
- 13. BEFORE POURING CONCRETE, REMOVE ALL DEBRIS FROM THE FORMWORK.
- 14. WET DOWN FORMWORK PRIOR TO PLACEMENT, OR APPLY A FORM RELEASE AGENT FOLLOWING MANUFACTURER'S RECOMMENDATIONS.
- 15. DO NOT REMOVE FORMWORK AND BRACING UNTIL CONCRETE HAS GAINED SUFFICIENT STRENGTH TO CARRY ITS OWN WEIGHT, CONSTRUCTION LOADS, AND DESIGN LOADS WHICH ARE LIABLE TO BE IMPOSED ON IT.
- 16. REMOVE FORMS IN A MANNER TO ASSURE THE COMPLETE SAFETY OF THE STRUCTURE.
- 17. DO NOT PLACE ANY CONCRETE IF THE SUBGRADE HAS STANDING WATER OR IS MUDDY.

L. STEEL REINFORCEMENT

- 1. PROVIDE REINFORCING BARS CONFORMING TO ASTM A 615, GRADE 60 FREE OF LOOSE FLAKY RUST, MUD, OIL, OR OTHER COATINGS WHICH WILL ADVERSELY AFFECT BONDING CAPACITY.
- 2. PLACE REINFORCEMENT ACCURATELY AND ADEQUATELY SUPPORTED BY CONCRETE MASONRY UNITS OR OTHER APPROVED SPACERS.
- 3. SECURE REINFORCEMENT AGAINST DISPLACEMENT WITHIN TOLERANCES SPECIFIED IN "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318).
- 4. HOLD BARS IN PLACE USING A MINIMUM 18 GAUGE ANNEALED IRON WIRE.
- 5. SPLICES IN DEFORMED REINFORCING BARS WILL NOT BE PERMITTED UNLESS APPROVED BY OWNER.
- 6. REINFORCING ROD TO COMPLY WITH ASTM 615, GRADE 60.

M. FOUNDATIONS

- 1. PROVIDE SMOOTH FINISH AT ALL EXPOSED SURFACES.
- 2. CONSTRUCT CORNERS WITH A ONE INCH CHAMFER.
- 3. INCREASE THE DEPTH OF FOUNDATIONS, IF REQUIRED BY FROST LINE CONDITIONS OR BY LOCAL CODES.
- 4. OBTAIN OWNER APPROVAL OF ADDITIONAL DEPTH REQUIREMENTS BEFORE PLACING CONCRETE.
- 5. CONSTRUCT TOP ELEVATION OF FOUNDATIONS TO WITHIN +1/4 INCH OF THE ELEVATION INDICATED ON THE DRAWINGS.
- 6. INSTALL ANCHOR BOLTS WITH A HORIZONTAL TOLERANCE OF +1/8 INCH AND A VERTICAL ALIGNMENT OF +1/8 INCH OUT OF PLUMB.

N. GROUT

- 1. PROVIDE NON-METALLIC, NON-SHRINK, PREMIXED NON-STAINING GROUT CONTAINING SELECTED SILICA SANDS, ASTM C 150 TYPE I PORTLAND CEMENT, AND SHRINKAGE COMPENSATING AGENTS.
- 2. ACCEPTABLE PRODUCTS ARE "EMBECO" BY MASTER BUILDERS AND "FIVE STAR GROUT" BY U.S. GROUT CORPORATION.

CONCRETE (CONTINUED)

O. FIELD QUALITY CONTROL

- 1. TESTING: OWNER WILL ENGAGE A QUALIFIED TESTING/INSPECTION AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS AND PREPARE TESTING AND INSPECTION REPORTS.
- 2. TESTING AGENCY:
 - a) TESTING AGENCY SHALL IMMEDIATELY REPORT TO OWNER ANY FAILURE OF WORK TO COMPLY WITH CONTRACT DOCUMENTS.
 - b) TESTING AGENCY SHALL REPORT RESULTS OF TESTS AND INSPECTIONS, IN WRITING, TO OWNER.
- 1. TEST REPORTS SHALL INCLUDE REPORTING REQUIREMENTS OF ASTM C31, ASTM C39, AND ACI 301, INCLUDING THE FOLLOWING AS APPLICABLE TO EACH TEST AND INSPECTION:
 - 1) PROJECT NAME.
 - 2) NAME OF TESTING AGENCY.
 - 3) NAMES AND CERTIFICATION NUMBERS OF FIELD AND LABORATORY TECHNICIANS PERFORMING INSPECTIONS AND TESTING
 - 4) NAME OF CONCRETE MANUFACTURER
 - 5) DATE AND TIME OF INSPECTION, SAMPLING, AND FIELD TESTING
 - 6) LOCATION IN WORK OF CONCRETE REPRESENTED BY SAMPLES
 - 7) DATE AND TIME SAMPLE WAS OBTAINED
 - 8) TRUCK AND BATCH TICKET NUMBERS
 - 9) DESIGN COMPRESSIVE STRENGTH AT 28 DAYS
 - 10) CONCRETE MIXTURE DESIGNATION
 - 11) FIELD TEST RESULTS
 - 12) TYPE OF FRACTURE AND COMPRESSIVE BREAK STRENGTHS AT SEVEN DAYS AND 28 DAYS
- 3. CONCRETE TESTS: TESTING OF COMPOSITE SAMPLES OF FRESH CONCRETE OBTAINED IN ACCORDANCE WITH ASTM C 172 SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS:
 - a) TESTING FREQUENCY: OBTAIN ONE COMPOSITE SAMPLE OF EACH CONCRETE MIXTURE NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 100 CUBIC YARD OR FRACTION THEREOF FOR SLABS, PAVEMENTS, AND WALLS, AND NOT LESS THAN ONCE FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF FOR FOUNDATIONS.
- 4. SLUMP: ASTM C143:
 - a) ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
 - b) PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
- 5. AIR CONTENT: ASTM C231
 - a) ONE TEST FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIXTURE.
- 6. CONCRETE TEMPERATURE: ASTM C1064:
 - a) ONE TEST HOURLY WHEN AIR TEMPERATURE IS 40 DEG F AND BELOW OR 80 DEG F AND ABOVE, AND ONE TEST FOR EACH COMPOSITE SAMPLE.
- 7. CURING COMPOUND
 - a) VERIFY THAT SPECIFIED CURING COMPOUND IS BEING USED.
 - b) VISUALLY VERIFY THAT THE SPECIFIED CURING COMPOUND WAS APPLIED.
- 8. COMPRESSION TEST SPECIMENS: ASTM C31:
 - a) CAST AND LABORATORY CURE ONE SET OF FOUR 6-INCH BY 12-INCH OR FIVE 4-INCH BY 8-INCH CYLINDER SPECIMENS FOR EACH COMPOSITE SAMPLE.
- 9. COMPRESSIVE-STRENGTH TESTS: ASTM C39.
 - a) TEST ONE LABORATORY SPECIMEN AT SEVEN DAYS FOR INFORMATION, ONE SET OF TWO 6-INCH BY 12-INCH OR THREE 4-INCH BY 8-INCH SPECIMENS AT 28 DAYS AND HOLD ONE CYLINDER IN RESERVE.
 - b) A COMPRESSIVE-STRENGTH TEST SHALL BE THE AVERAGE COMPRESSIVE STRENGTH FROM THE SET OF SPECIMENS OBTAINED FROM SAME COMPOSITE SAMPLE AND TESTED AT 28 DAYS.
- 10. FIELD VERIFY REINFORCING PLACEMENT, FORMWORK, GREENSTREAK LOCATIONS, AND EXPANSION MATERIAL. THESE ARE VISUAL INSPECTIONS PERFORMED PREPOUR.
- 11. SOIL TESTS SHALL RECEIVE PASSING GRADE PRIOR TO CONCRETE PLACEMENT.

SHEET NO. C-12

JASON LAMAR TOOLE

LICENSE No. 66531

STATE OF FLORIDA

PROFESSIONAL ENGINEER

JASON L. TOOLE, P.E.

FL P.E. No. 66531

Jason L. Toole, State of Florida, Professional Engineer, License No. 66531. This item has been digitally signed and sealed by Jason L. Toole on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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9/19/22

T.H.H.

A.M.D.

A.M.D.

J.C.H.

JOB NO. M3892

DATE

PRN

PM

DES

DRW

CONCRETE SPECIFICATIONS

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EARTHWORK SPECIFICATIONS

A. GENERAL

1. REFERENCED PUBLICATIONS: THE FOLLOWING PUBLICATIONS ARE INCLUDED AS PART OF THESE EARTHWORK SPECIFICATIONS:
- a) ASTM C 136 - METHOD FOR SIEVE ANALYSIS OF FINE AND COARSE AGGREGATES.
 - b) ASTM D 698 - TEST METHODS FOR MOISTURE-DENSITY RELATIONS OF SOIL AND SOIL-AGGREGATE MIXTURES, USING 5.5-LB (2.49 KG) RAMMER AND 12 INCH (305 MM) DROP.
 - c) ASTM D 1556 - TEST METHOD FOR DENSITY OF SOIL IN PLACE BY THE SAND-CONE METHOD.
 - d) ASTM D 4254 - TEST METHODS FOR MINIMUM INDEX DENSITY OF SOILS AND CALCULATION OF RELATIVE DENSITY.
 - e) ASTM D 1557 - TEST METHOD FOR MOISTURE-DENSITY ELEVATIONS OF SOILS AND SOIL-AGGREGATE MIXTURE USING 10 POUND (4.54 KG) RAMMER AND 18-IN. (457 MM) DROP.
 - f) ASTM D 2167 - TEST METHOD FOR DENSITY AND UNIT WEIGHT OF SOIL IN PLACE BY THE RUBBER BALLOON METHOD.
 - g) ASTM D 4253/ D4254 - STANDARD METHOD OF TEST FOR RELATIVE DENSITY OF COHESIONLESS SOILS.
2. CARE SHALL BE USED WHEN OPERATING MECHANICAL EQUIPMENT IN LOCATIONS WHERE IT MAY CAUSE DAMAGE TO TREES, BUILDINGS, CULVERTS, OR OTHER EXISTING PROPERTY, UTILITIES, OR STRUCTURES ABOVE OR BELOW GROUND.
3. PROVIDE SHORING, BARRIERS, LIGHTING, WARNING SIGNS, AND RAILINGS AS REQUIRED BY LAW OR REGULATIONS FOR THE PROTECTION OF EMPLOYEES, THE PUBLIC, AND ADJACENT PROPERTY.
4. PROPERLY BARRICADE AND PROTECT AND MAINTAIN ANY OPEN TRENCH OR EXCAVATION TO PREVENT ACCIDENTAL OR UNAUTHORIZED ENTRANCE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND PLUMBING, DRAINAGE, OR ELECTRICAL UTILITY LINES.
- a) WHERE CERTAIN ON-SITE UTILITIES ARE INDICATED TO REMAIN, PROTECT AND MAINTAIN SUCH LINE, AND BE RESPONSIBLE FOR ALL DAMAGE UNTIL COMPLETION OF WORK.
 - b) COOPERATE WITH UTILITY COMPANIES TO MAINTAIN EXISTING UTILITY LINES IN CONTINUOUS OPERATION.
 - c) WHERE UNMARKED UTILITIES ARE UNCOVERED WITHIN THE WORK AREA, NOTIFY MURPHY OIL USA, INC. AND THE UTILITIES HAVING JURISDICTION, AND TAKE PRECAUTIONS TO PREVENT INTERRUPTION OF SERVICE.
 - 1) SHOULD SUCH LINES OR SERVICES BE DAMAGED, BROKEN OR INTERRUPTED THROUGH NEGLIGENCE, REPAIR AND RESTORE IMMEDIATELY WITHOUT ADDITIONAL COST TO UTILITY OR TO MURPHY OIL USA, INC.
6. CLOSE OPEN ENDS OF ABANDONED UNDERGROUND UTILITIES WHICH ARE INDICATED TO REMAIN IN PLACE. FOLLOW PROCEDURES ESTABLISHED BY THE UTILITY COMPANY HAVING JURISDICTION.

B. GRADING

1. REMOVE ALL DEBRIS FROM AREAS TO BE LANDSCAPED TO A DEPTH OF TWO FEET.
- a) BACKFILL WITH CLEAN SOIL TO A DEPTH WITHIN SIX INCHES OF THE FINISHED GRADE.
 - b) BACKFILL TO SIX INCHES BELOW TOP OF EXISTING CURBS.
2. UNIFORMLY COMPACT BACKFILL AND GRADE AREAS TO INDICATED SLOPE WITH A TOLERANCE OF 1/4 INCH ABOVE OR BELOW INDICATED ELEVATIONS.
3. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION.
4. REPAIR, RE-GRADE, AND RE-COMPACT GRADES IN SETTLED, ERODED, AND RUTTED AREAS TO SPECIFIED TOLERANCES.
5. LANDSCAPING WORK INCLUDING BACKFILLING LANDSCAPED AREAS TO GRADE WITH SIX INCHES OF TOPSOIL.

C. EXCAVATING

1. EXCAVATION OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH OSHA GUIDELINES AND ALL APPLICABLE STATE AND LOCAL ORDINANCES.
2. EXCAVATE SUBSOIL REQUIRED FOR FOUNDATIONS, CONSTRUCTION OPERATIONS, AND OTHER WORK.
3. EXCAVATE FOUNDATIONS TO A DEPTH INDICATED ON THE DRAWINGS OR AS DEEP AS REQUIRED TO ATTAIN PROPER SOIL BEARING PRESSURE, OR MEET GOVERNING CODES.
4. DEEPER FOUNDATIONS WILL BE APPROVED, IN WRITING, BY MURPHY OIL USA, INC.
5. MACHINE SLOPE BANKS TO ANGLE OF REPOSE OR LESS UNTIL SHORED, AS REQUIRED BY ALL CURRENT OSHA STANDARDS.
6. DO NOT ALLOW EXCAVATION TO INTERFERE WITH NORMAL 45 DEGREE BEARING SPLAY OF ANY FOUNDATION.
7. HAND TRIM EXCAVATION AND LEAVE FREE OF LOOSE MATTER.
8. EXCAVATED MATERIAL SHALL BE FIELD-SCREENED BY THE ENGINEER USING AMBIENT TEMPERATURE HEADSPACE ANALYSIS (ATHA) METHODS TO SEGREGATE POTENTIALLY CONTAMINATED SOILS FROM UNCONTAMINATED SOILS.
- a) EXCAVATED MATERIALS WITH OBSERVED PHOTO IONIZATION DETECTOR (PIP) READINGS GREATER THAN 20 PARTS PER MILLION (PPM) DURING THE SCREENING WILL BE CONSIDERED POTENTIALLY CONTAMINATED AND SHALL BE PLACED ON A BERMED, IMPERMEABLE LINER OF MINIMUM 6-MIL VISQUEEN AT A LOCATION DESIGNATED BY THE ENGINEER.
 - 1) THE ENGINEER WILL COORDINATE APPROVAL FOR DISPOSAL OF THE SOIL TRANSPORTATION OF CONTAMINATED SOIL TO AN APPROVED DISPOSAL SITE WILL BE PERFORMED BY THE CONTRACTOR UNDER THIS CONTRACT.
 - b) THE ENGINEER MAY COLLECT SAMPLES OF EXCAVATED MATERIAL FOR FIELD OR LABORATORY ANALYSES FOR THE PURPOSE OF VERIFYING CONTAMINANT CONCENTRATIONS.
 - 1) THE CONTRACTOR SHALL PROVIDE SAMPLES OF EXCAVATED MATERIAL TO THE ENGINEER, AS REQUESTED.
 - c) EXCAVATED MATERIAL WITH OBSERVED PIP READINGS LESS THAN 20 PPM DURING ATHA TESTING WILL BE CONSIDERED UNCONTAMINATED AND SHALL BE TEMPORARILY STOCKPILED ON SITE IN A LOCATION WHICH WILL NOT INTERFERE WITH TRAFFIC OR DAILY BUSINESS OPERATIONS.
 - 1) UNCONTAMINATED MATERIAL WILL NOT BE USED AS BACKFILL IF THE ENGINEER DETERMINES THAT EXCAVATED UNCONTAMINATED MATERIALS IS UNSUITABLE FOR USE AS BACKFILL.
 - a) THE EXCAVATED MATERIAL WILL BE TRANSPORTED OFF SITE BY THE CONTRACTOR FOR RE-USE OR DISPOSAL.
9. REPLACE ALL UNSATISFACTORY SOIL MATERIALS WITH AN ENGINEERED FILL CONSISTING OF ORDINARY SOIL AS EXCAVATED ON THE SITE, FREE FROM DEBRIS ROOTS, STONES LARGER THAN TWO INCHES, SILT, MUCK OR PEAT CAPABLE OF BEING COMPACTED TO THE DENSITIES SPECIFIED IN BACKFILL.
- a) INSTALL FILL MATERIAL IN LAYERS NOT EXCEEDING 12 INCHES AND MOISTENED ONLY AS REQUIRED TO OBTAIN THE SPECIFIED DEGREE OF COMPACTING.
10. CORRECT UNAUTHORIZED OVER-EXCAVATED AT NO COST TO THE OWNER.
11. STOCKPILE SUFFICIENT CLEAN APPROVED SOIL MATERIALS FOR ALL BACKFILLING OR GRADING WORK.
- a) STOCKPILE EXCAVATED MATERIAL IN AREA DESIGNATED ON-SITE OR WHERE DIRECTED AND REMOVE EXCESS SUBSOIL, NOT BEING REUSED, FROM SITE.
 - b) DO NOT USE UNTREATED OR STABILIZED TOPSOIL AS COMPACTED SUB-GRADE MATERIAL UNDER PAVING OR FOUNDATION STRUCTURES UNLESS SPECIFICALLY APPROVED BY MURPHY OIL USA, INC.
12. IN THE EVENT THAT SOLID ROCK OR OTHER UNEXPECTED MATERIALS OVER ONE CUBIC YARD IN VOLUME ARE ENCOUNTERED, EXTRA COST WILL BE ALLOWED AFTER WRITTEN APPROVAL BY MURPHY OIL USA, INC. EXTRA COST WILL FOLLOW UNIT PRICES QUOTED IN THE CONTRACTOR'S BID, WITH QUANTITIES TO BE APPROVED BY MURPHY OIL USA, INC.

EARTHWORK (CONTINUED)

C. EXCAVATING (CONTINUED)

13. FILL OVER-EXCAVATED AREAS UNDER STRUCTURE BEARING SURFACES BY EXTENDING INDICATED BOTTOM ELEVATION OF FOOTING OR BASE TO EXCAVATION BOTTOM WITHOUT CHANGING TOP ELEVATION OR BY FILLING UNAUTHORIZED EXCAVATION WITH 3000 PSI CONCRETE.
14. TRENCHING
- a) COMPLY WITH OSHA AND OTHER LOCAL REGULATIONS FOR TRENCHING REQUIREMENTS.
 - b) CONFORM EXCAVATIONS FOR PIPING TO LIMITS, DEPTHS, AND MATERIALS INDICATED ON THE DRAWINGS, AND TO APPLICABLE CODES AND REGULATIONS.
 - c) MECHANICAL EQUIPMENT SHALL BE DESIGNED AND OPERATED IN SUCH A MANNER THAT THE BOTTOM ELEVATION OF THE TRENCH CAN BE CONTROLLED WITH UNIFORM TRENCH WIDTHS AND VERTICAL SIDEWALLS WHICH EXTEND FROM THE BOTTOM OF THE TRENCH TO AN ELEVATION 1 FOOT ABOVE THE TOP OF THE INSTALLED PIPE.
 - d) TRENCHES SHALL BE EXCAVATED BY HAND IN LOCATION WHERE UNDERGROUND UTILITIES ARE KNOWN OR SUSPECTED.
 - e) DESIGN AND PROVIDE SHEETING, SHORING, OR BRACING AT ANY OPEN TRENCH.
 - f) EXCAVATE SUBSOIL REQUIRED TO INSTALL UNDERGROUND PIPING AND UTILITIES.
 - g) TRENCHES SHALL BE EXCAVATED BY OPEN-CUT METHODS, EXCEPT WHEN BORING OR TUNNELING IS INDICATED ON THE DRAWINGS OR APPROVED BY THE ENGINEER.
 - h) TRENCHES SHALL BE EXCAVATED TO A WIDTH NECESSARY TO PROVIDE A 1-PIPE DIAMETER MINIMUM WORKING SPACE BETWEEN THE PIPE AND THE TRENCH WALLS FOR PROPER PIPE INSTALLATION, JOINING, AND BEDDING.
 - i) TRENCH WIDTH SHALL BE MAINTAINED TO WITHIN THREE (3) INCHES OF THAT SPECIFIED ON PLANS.
 - 1) TRENCH ALIGNMENT SHALL BE SUFFICIENTLY ACCURATE TO PERMIT PIPE TO BE ALIGNED PROPERLY WITH A 6-INCH MINIMUM CLEARANCE BETWEEN THE PIPE AND THE SIDEWALLS OF THE TRENCH.
 - a) THE TRENCH SIDEWALL SHALL NOT BE UNDERCUT IN ORDER TO OBTAIN CLEARANCE.
 - j) CONTRACTOR SHALL OVER-EXCAVATE A MINIMUM OF SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE WHEREVER THE TRENCH BOTTOM IS CONSIDERED TO BE BEDROCK OR OTHER UNSUITABLE MATERIAL.
 - 1) OVER-EXCAVATED SHALL BE BACKFILLED AND COMPACTED WITH ACCEPTABLE STABILIZATION MATERIAL.
 - k) WHERE INSTALLING PIPE OR CONDUIT, EXCAVATE OR REMOVE ROCK TO SIX INCHES BELOW THE REQUIRED ELEVATION.
 - 1) BACKFILL WITH CRUSHED STONE OR GRAVEL.
 - 2) HAND TRIM FOR BELL AND SPIGOT PIPE JOINTS.
 - 3) SUPPORT PIPE DURING PLACEMENT.
 - i) BACKFILL SYSTEMATICALLY, AS EARLY AS POSSIBLE, TO ALLOW MAXIMUM TIME FOR NATURAL SETTLEMENT.
 - m) DO NOT BACKFILL TRENCHES UNTIL TESTING THAT IS REQUIRED BY APPLICABLE CODES HAS BEEN CONDUCTED AND APPROVED.
 - n) STOCKPILING EXCAVATED MATERIALS
 - 1) SUITABLE MATERIAL FOR BACKFILLING SHALL BE STOCKPILED IN AN ORDERLY MANNER, AND A MINIMUM OF TWO (2) FEET FROM THE EDGE OF THE TRENCH.
 - 2) EXCESS EXCAVATED MATERIALS NOT SUITABLE OR NOT REQUIRED FOR BACKFILLING SHALL BE REMOVED AND DISPOSED OF OFF-SITE BY THE CONTRACTOR.
 - 3) EXCAVATED MATERIAL SHALL NOT BE STOCKPILED AGAINST EXISTING STRUCTURES OR APPURTENANCES.
 - o) PREPARATION OF TRENCH BOTTOM.
 - 1) TRENCH BOTTOMS SHALL BE GRADED UNIFORMLY TO PROVIDE CLEARANCE FOR EACH SECTION OF PIPE.
 - 2) LOOSE MATERIAL, WATER, AND FOREIGN OBJECTS SHALL BE REMOVED FROM THE TRENCH.
 - 3) THE CONTRACTOR SHALL PROVIDE A FIRM SUB GRADE, WHICH IS SUITABLE FOR APPLICATION OF BEDDING MATERIAL.
 - 4) WHEREVER UNSTABLE MATERIAL IS ENCOUNTERED IN THE BOTTOM OF THE TRENCH, SAID MATERIAL SHALL BE OVER-EXCAVATED TO A DEPTH SUITABLE FOR CONSTRUCTION OF A STABLE SUB-GRADE.
 - a) THE DEPTH SUITABLE FOR CONSTRUCTION OF A STABLE SUB GRADE SHALL BE DETERMINED BY THE ENGINEER.
 - b) THE OVER-EXCAVATION SHALL BE BACKFILLED WITH STABILIZATION MATERIAL AND COMPACTED AS REQUIRED BY THE ENGINEER.

D. DEWATERING

1. PREVENT SURFACE WATER AND SUBSURFACE OR GROUND WATER FROM FLOWING INTO EXCAVATIONS AND FROM FLOODING PROJECT SITE AND SURROUNDING AREA.
2. AT NO TIME WILL PERSONNEL BE ALLOWED IN THE TRENCH UNLESS SUCH ENTRY COMPLIES WITH OSHA GUIDELINES AND WITH APPLICABLE STATE AND LOCAL REGULATIONS.
3. DO NOT ALLOW WATER TO ACCUMULATE IN EXCAVATIONS.
4. ANY WATER SUSPECTED OF BEING CONTAMINATED IS TO BE BROUGHT TO THE ATTENTION OF MURPHY OIL USA, INC.
5. REMOVE WATER TO PREVENT SOIL CHANGES DETRIMENTAL TO THE STABILITY OF SUB-GRADES.
6. PROVIDE AND MAINTAIN PUMPS, WELL POINTS, SUMPS, SUCTION AND DISCHARGE LINE, AND OTHER DEWATERING SYSTEM COMPONENTS NECESSARY TO CONVEY WATER AWAY FROM EXCAVATIONS.
7. ESTABLISH AND MAINTAIN TEMPORARY DRAINAGE DITCHES AND OTHER DIVERSIONS OUTSIDE EXCAVATION LIMITS TO CONVEY RAIN WATER AND REMOVED FROM EXCAVATIONS TO COLLECTION OR RUN-OFF AREAS.
8. DO NOT USE TRENCH EXCAVATIONS AS TEMPORARY DRAINAGE DITCHES.
9. MAINTAIN WATER ON SITE, IF REQUIRED BY THE LOCAL AUTHORITY.
10. TRENCHING
- a) ALTHOUGH IT IS NOT ANTICIPATED THAT PIPING TRENCHES WILL BE EXCAVATED BELOW THE WATER TABLE, ALL TRENCHES SHOULD BE KEPT FREE FROM EXCESS GROUNDWATER DURING CONSTRUCTION.
 - b) ANY WATER WHICH IS ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO THE EXTENT NECESSARY TO PROVIDE A FIRM SUB GRADE, TO PERMIT JOINTS TO BE MADE IN THE PIPING, AND TO PREVENT THE ENTRANCE OF WATER INTO THE PIPELINE.
 - c) SURFACE RUNOFF SHALL BE DIVERTED TO KEEP TRENCHES FREE FROM WATER, AS NECESSARY.
 - d) WATER SHALL NOT BE DISCHARGED FROM A TRENCH WITHOUT THE APPROVAL OF THE ENGINEER.
 - e) WATER SHALL BE PUMPED FROM THE TRENCH TO A HOLDING TANK FOR FUTURE TREATMENT, IF NECESSARY.
 - f) THE CONTRACTOR SHALL TREAT THE DISCHARGED WATER TO REMOVE VOLATILE CONTAMINANTS TO CONCENTRATIONS WITHIN LIMITS PRESCRIBED BY REGULATORY AUTHORITIES PRIOR TO DISPOSAL OF THE WATER.
 - g) THE CONTRACTOR MUST DISCHARGE TREATED WATER IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS AND ORDINANCES IN A MANNER WHICH PREVENTS DAMAGE TO PERSONAL PROPERTY.
 - h) THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO HIS INTENT TO DISCHARGE WATER.
 - i) WATER SAMPLES MAY BE COLLECTED BY THE ENGINEER TO VERIFY CONTAMINANT CONCENTRATIONS.
 - j) THE CONTRACTOR SHALL PROVIDE DISCHARGE SAMPLES TO THE ENGINEER AS REQUESTED.
 - k) THE CONTRACTOR IS RESPONSIBLE FOR SECURING AND COMPLYING WITH ALL PERMITS AS REQUIRED BY f) ABOVE.

EARTHWORK (CONTINUED)

- E. BACKFILL
1. BEFORE COMPACTING, MOISTEN OR AERATE EACH LAYER OF BACKFILL AS REQUIRED TO OBTAIN OPTIMUM MOISTURE CONTENT TO ATTAIN REQUIRED COMPACTING DENSITY.
- a) CINDERS, ASHES, ORGANIC MATTER, RUBBISH, OR OTHER DELETERIOUS MATERIALS WILL NOT BE PERMITTED.
 - b) PLACE FILL IN LAYERS NOT MORE THAN EIGHT INCHES IN LOOSE DEPTH.
 - 2. ROLL AREAS WITH SOILS CONTAINING CLAY OR SILT (COHESIVE SOILS) UNDER PAVING AND BUILDINGS WITH A SHEEP'S FOOT ROLLER.
 - a) COMPACT FILL WITH COHESIVE MATERIALS TO A DENSITY EQUAL TO 95 PERCENT OF RELATIVE DENSITY AS DETERMINED BY ASTM D 698.
 - b) DETERMINE FIELD DENSITY FOR COHESIVE SOILS BY THE SAND CONE METHOD FOLLOWING ASTM D 1556.
 - 3. ROLL AREAS WITH SOILS CONTAINING SAND AND GRAVEL (COHESION-LESS SOILS) UNDER PAVING AND BUILDINGS WITH EITHER A THREE WHEEL TEN TON VIBRATOR ROLLER OR SEVEN TON TRACTOR.
 - a) COMPACT FILL WITH COHESION-LESS SOILS TO A DENSITY EQUAL TO 65 PERCENT OF RELATIVE DENSITY AS DETERMINED BY ASTM D 4254.
 - b) DETERMINE FIELD DENSITY FOR COHESION-LESS SOILS BY THE RUBBER BALLOON METHOD FOLLOWING ASTM D 2167.
 - 4. THE OWNER MAY EMPLOY AND PAY FOR AN INDEPENDENT TESTING LABORATORY TO PERFORM ANY TEST OR INSPECTION TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS.
 - 5. IF TESTS INDICATE WORK DOES NOT MEET SPECIFIED REQUIREMENTS, REMOVE WORK, REPLACE, AND RETEST WITHOUT ADDITIONAL COST TO THE OWNER.
 - 6. BACKFILL FOR UNDERGROUND STORAGE TANKS IS SPECIFIED ON THE TANK INSTALLATION DRAWING.
 - 7. TRENCHING
 - a) BACKFILLING WITH SAND OR PEA GRAVEL TO A DEPTH OF FOUR INCHES ABOVE THE TOP OF THE CONDUIT.
 - 1) DO NOT USE SAND IN CONJUNCTION WITH FILTER FABRIC.
 - 2) VOIDS BETWEEN CONDUITS WILL NOT BE PERMITTED.
 - 3) CLEAN EARTH MAY BE SUBSTITUTED FOR SAND WHEN THE TRENCH CONTAINS ONLY ONE CONDUIT.
 - b) COMPRESSED AIR AND POTABLE WATER PIPING
 - 1) LAY PIPING ON A FOUR INCH COMPACTED BEDDING OF CLEAN SAND OR PEA GRAVEL.
 - 2) CONTINUE SAND BACKFILL TO A DEPTH OF FOUR INCHES ABOVE THE TOP OF THE PIPE.
 - c) SEWER PIPING
 - 1) LAY SEWER PIPING SUPPORTED CONTINUOUSLY ON A SIX INCH COMPACTED BEDDING OF GRAVEL OR CRUSHED STONE OF WHICH 100 PERCENT WILL PASS THROUGH A 1/2 INCH SIEVE.
 - 2) SHAPE BEDDING FOR CLEARANCE OF ALL JOINTS AND FITTINGS, TAMPED IN PLACE, AND GRADED EVENLY TO ENSURE A UNIFORM BEARING FOR THE FULL LENGTH OF THE PIPE.
 - 3) DO NOT SUPPORT PIPING BY BLOCKS, PLANKS, OR MOUNDS OF BEDDING MATERIAL.
 - d) BACKFILL ONLY AFTER PIPING AND APPURTENANCES HAVE BEEN INSPECTED, TESTED, AND APPROVED.
 - 1) PROVIDE GRANULAR BACKFILL MATERIAL FREE OF STONES LARGER THAN THREE INCHES IN DIAMETER, NON-CORROSIVE, AND NON-ORGANIC IN NATURE.
 - 2) DO NOT USE MATERIAL WITH CINDERS, BUILDING MATERIALS, WASTE, OR RUBBISH.
 - 3) DO NOT USE FROZEN OR SEMI-FROZEN BACKFILL MATERIALS.
 - 4) BACKFILL AROUND PIPE TO A DEPTH OF 12 INCHES ABOVE THE TOP OF THE PIPE IN LAYERS.
 - 5) USE GRAVEL OR CRUSHED STONE OF WHICH 100 PERCENT WILL PASS THROUGH A 1/2 INCH SIEVE.
 - 6) INSTALL IN LAYERS NOT TO EXCEED SIX INCHES IN DEPTH.
 - 7) TAKE CARE NOT TO DISTURB THE PIPE OR DAMAGE ANY PIPE COATING.

CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT AND ALL CIVIL DOCUMENTS. THE GEOTECHNICAL REPORT AND CIVIL DOCUMENTS SUPERCEDE ANY OF THE STANDARD SPECIFICATIONS ON THIS SHEET.

SHEET NO.

C-12.1

JASON LAMAR TOOLE

LICENSE

No. 66531

STATE OF

FLORIDA

PROFESSIONAL ENGINEER

JASON L. TOOLE, P.E.

FL P.E. No. 66531

Jason L. Toole, State of Florida,
Professional Engineer, License No.
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the signature must be verified on
any electronic copies

REV-4

9/19/22

T.H.H.

DATE

PRN

J.C.H.

JOB NO. M3892

DRW

EARTH WORK SPECIFICATIONS

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