

THE STATE OF DELAWARE DEPARTMENT OF TRANSPORTATION



CONSTRUCTION PLANS FOR:

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT NUMBER: T202400902
FEDERAL AID PROJECT NUMBER: ESTP-S024(28)

COUNTY: SUSSEX M.R. #: <u>S024, S277</u> LIMIT OF CONTRACT **END CONTRACT STATION 225+50 STATION 120+75** CONLEYS CHAPEL RD 280B WYNDAM / WAY ANGOLA RD ANGOLA **BEGIN CONTRACT** LIMIT OF CONTRACT **STATION 206+00 STATION 100+25**

NOT TO SCALE

U.S. CUSTOMARY
UNITS

MRD #: S024 ROAD NAME: SR 24 (ANGOLA)

FUNCTIONAL CLASS: MAJOR COLLECTOR D.H.V. PROJECTED: 1585 YEAR: 20

TYPE OF CONSTRUCTION: INTERSECTION IMPROVEMENT DESIGN SPEED: 55 M.P.H.

A.A.D.T. CURRENT: 19868 YEAR: 2017 TRUCKS: 8 %

A.A.D.T. PROJECTED: 25000 YEAR: 2041 DIRECTION OF DISTRIBUTION: 60 %

MRD #: S277 ROAD NAME: ANGOLA ROAD / ROBINSONVILLE ROAD

FUNCTIONAL CLASS: LOCAL D.H.V. PROJECTED: 165 YEAR: 20

TYPE OF CONSTRUCTION: WIDENING DESIGN SPEED: 40 M.P.H.

A.A.D.T. CURRENT: 3309 YEAR: 2017 TRUCKS: 7 %

APPROVED DESIGN EXCEPTIONS

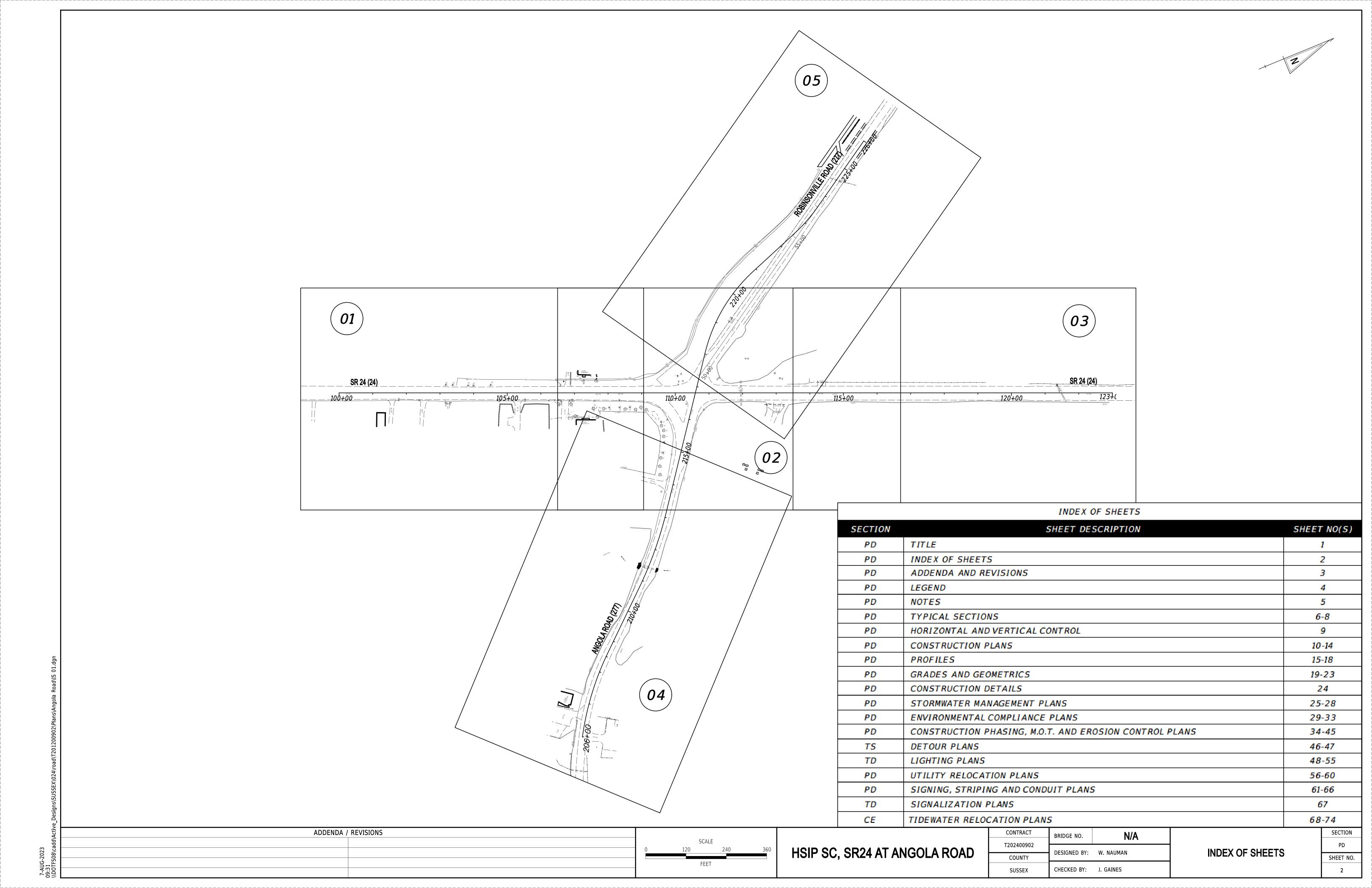
DESIGN PARAMETER REQUIRED PROVIDED DATE

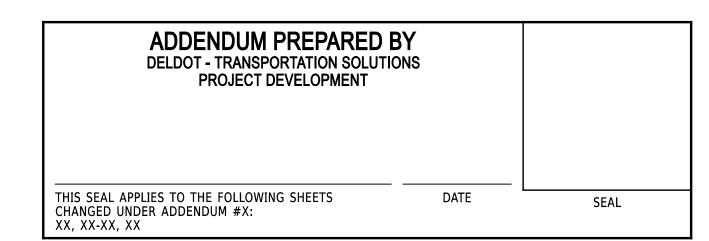
ADDENDA / REVISIONS

ASSOCIATED CONTRACTS		
CONTRACT NO.	CONTRACT NAME	
CS61	HARMON SCHOOL - ANGOLA EC INDIAN MISSION	
643	HARMON SCHOOL - MIDWAY	
1395	RD. 277 (RD. 275 TO RD. 24) VIA CONLEY CHAPEL	
69-01-005	ROUTE NO. 24 BRIDGE NO. 516 TO ROUTE NO. 14	
88-063-06	SR 24 S277A TO S279, PEDDLERS VILLAGE	

APPROVED FOR ADV	ERTISEMENT
1/	
MUZ	10/02/2023
DIRECTOR OF TRANSPORTATION SOLUTIONS	DATE

4ST REVISED: 11/26/2018 -- AUG-2023 3-5-2





REVISION PREPARED BY DELDOT - TRANSPORTATION SOLUTION XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	·=	
THIS SEAL APPLIES TO THE FOLLOWING SHEETS CHANGED UNDER REVISION #X: XX. XX-XX. XX	DATE	SEAL

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ADDENDA / REVISIONS

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT
BRIDGE NO.

T202400902
COUNTY

DESIGNED BY: W. NAUMAN

CHECKED BY: J. GAINES

ADDENDA AND REVISIONS

ND SHEET NO.

EXISTING SYMBOLS

DRAINAGE	
	DITCH OR STREAM CENTERLINE
	DIRECTIONAL STREAM FLOW ARROW
C.B. D.I.	DRAINAGE INLET
J.B.	DRAINAGE JUNCTION BOX
D	DRAINAGE MANHOLE
SIZE/TYPE_LABEL	DRAINAGE PIPE AND FLOW ARROW
	DRAINAGE PIPE HEADWALL
	RIPRAP - AREA FEATURE
∞	RIPRAP - LINEAR FEATURE

	1	
MANMADE ROADSIDE FEATURES		
0	BOLLARD - STEEL POLE	
\boxtimes	BOLLARD - WOOD POST	
(TYPE LABEL)	CURB	
(TYPE LABEL)	CURB AND GUTTER	
X	FENCE - CHAINLINK OR STRANDED	
<u> </u>	FENCE - STOCKADE OR SPLIT RAIL	
F.P.	FLAG POLE	
_n	GUARDRAIL - STEEL BEAM	
	GUARDRAIL - WIRE ROPE	
LAMP	LAMP AND POST - RESIDENTIAL	
МВ	MAILBOX	
P.M.	PARKING METER AND POST	
	PAVEMENT - FLEXIBLE	
	PAVEMENT - RIGID	
	PILE - BRIDGE	
0	PILLAR OR MISCELLANEOUS POST	
4	TRAFFIC SIGN AND POST	
0000	WALL - BRICK OR BLOCK	
00000	WALL - STONE	

NATURAL ROADSIDE FEATURES		
ΔVz	GRASS LAWN	
ancancanca	HEDGEROW OR THICKET	
	MARSH BOUNDARY LINE	
*	TREE - CONIFEROUS	
	TREE - DECIDUOUS	
Д	TREE STUMP	
*	SHRUBBERY	
— WL———————————————————————————————————	DELINEATED WETLAND BOUNDARY LINE	
	WOODS LINE BOUNDARY	

	RIGHT-OF-WAY SYMBOLS
C.M.	PROPERTY MARKER - CONCRETE MON.
I.P.	PROPERTY MARKER - IRON PIPE
100+00	HISTORIC RIGHT-OF-WAY BASELINE
	EXISTING RIGHT-OF-WAY
————	EXISTING PROPERTY LINE
EASEMENT TYPE	EXISTING EASEMENT
DA	EXISTING DENIAL OF ACCESS
R/W-DA	EXISTING R/W & DENIAL OF ACCESS

SURVEY CONTROL & MONUMENTATION SURVEY BENCHMARK LOCATION T.P. SURVEY TIE POINT LOCATION

\triangle	SURVEY TRAVERSE POINT
0	POINT OF CURVATURE OR TANGENCY
0	POINT OF INTERSECTING TANGENTS
	UTILITY
•	SOIL BORING LOCATION
•	UTILITY TEST HOLE LOCATION
TV	CABLE TV DISTRIBUTION BOX
E	ELECTRIC MANHOLE
EM	ELECTRIC METER
E	ELECTRIC TRANSFORMER
<u> </u>	POLE MOUNTED LUMINAIRE
©	GAS MANHOLE
G.M.	GAS METER
G.V.	GAS VALVE
G.P.	GAS PUMP - SERVICE STATION
	RAILROAD TRACKS
(S)	SANITARY SEWER MANHOLE
S.V.	SANITARY SEWER VALVE
S.C.O.	SANITARY SEWER CLEANOUT OR VENT
S.D.F.	SEPTIC DRAIN FIELD
В	TELEPHONE BOOTH
T	TELEPHONE MANHOLE
T	TELEPHONE TEST POINT
J.W.	TRAFFIC - CONDUIT JUNCTION WELL
	TRAFFIC - LIGHT POLE AND BASE
	TRAFFIC - PEDESTRIAN POLE & BASE
	TRAFFIC - SIGNAL CABINET & BASE
⊗	TRAFFIC - SIGNAL POLE AND BASE
U	UTILITY BOX
o->	UTILITY POLE GUY WIRE ANCHOR
×	UTILITY POLE
F.H.	WATER - FIRE HYDRANT
W.M.	WATER METER
WV	WATER VALVE
WELL	WELL HEAD
?	MANHOLE - UNDETERMINED OWNER

UTILITY COMPANY FACILITIES		
——— DEC-E (X)———	DELAWARE ELECTRIC CO-OP	
SC-S (X)	SUSSEX COUNTY SANITARY SEWER	
———TU-W (X)———	TIDEWATER UTILITIES	
VER-C (X)	VERIZON	
——————————————————————————————————————	CHESAPEAKE UTILITIES	
——MED-C (X)——	MEDIACOM	
(X) REPRESENTS ASCE DEFINED SUE QUALITY LEVEL		

PROPOSED SYMBOLS

	CONSTRUCTION		IDENTIFIERS
	CONCRETE SAFETY BARRIER - PERMANENT	A C	ADJUST BY CONTRACTOR
×——BFS——×	BIOFILTRATION SWALE	$\frac{A}{C}$	ADJUST BY OTHERS
	BRICK PATTERNED SURFACE	B	CONCRETE SAFETY BARRIER
	BUTT JOINT	C	CURB OR CURB & GUTTER
CZ	CLEAR ZONE	CJB	CONVERT TO JUNCTION BOX
100+00	CONSTRUCTION BASELINE	CMH	CONVERT TO DRAINAGE MANHOLE
——————————————————————————————————————	CONSTRUCTION SAFETY FENCE	<u>C</u>	CURB OPENING - SUMP / ON GRADE
	CURB, TYPE 1 & TYPE 3	CO	CURB OPENING WITH SIDEWALK
	CURB, TYPE 2	PC	PEDESTRIAN CONNECTION / TYPE
	CURB & GUTTER, TYPE 1	PC-N XXX	PEDESTRIAN CONNECTION / TYPE WITHOUT SIDEWALK SURFACE DETECTABLE WARNING SYSTEM
	CURB & GUTTER, TYPE 2	CSF	CONSTRUCTION SAFETY FENCE
	CURB & GUTTER, TYPE 3	DI	DRAINAGE INLET
	CURB & GUTTER, TYPE 4	(DND)	DO NOT DISTURB
A A	CURB OPENING - SUMP / ON GRADE	ED XXX	ENERGY DISSIPATOR
	CURB OPENING WITH SIDEWALK	F	FENCE
	DRAINAGE INLET	FES	FLARED END SECTION
××	DITCH	(FF)	FILL WITH FLOWABLE FILL
o	FENCE - METAL / FENCE - WOOD	FS	FILTRATION STRUCTURE
	FLARED END / SAFETY END SECTION	GR XXX	GUARDRAIL
	GUARDRAIL, TYPE 1	JB XXX	JUNCTION BOX
_ A A A A A	GUARDRAIL, TYPE 2	MH	MANHOLE
<u> </u>	GUARDRAIL, TYPE 3	M	MONUMENT - RIGHT-OF-WAY
Сп. Б. Б	GUARDRAIL END ANCHORAGE	P	PIPE
	GUARDRAIL END TREATMENT, TYPE 1	RL C	RELOCATE BY CONTRACTOR
هـــــــــــــــــــــــــــــــــــــ	GUARDRAIL END TREATMENT, TYPE 2	RL	RELOCATE BY OTHERS
	GUARDRAIL END TREATMENT, TYPE 3	RL	RELOCATE BY PROPERTY OWNER
	IMPACT ATTENUATOR	RM	REMOVE BY CONTRACTOR
	JUNCTION BOX - DRAINAGE	RM	REMOVE BY TRAFFIC CONTRACTOR
LО	LATERAL OFFSET	RM	REMOVE BY OTHERS
LOC	LIMIT OF CONSTRUCTION	SES	SAFETY END SECTION
MB	MAILBOX	UD XXX	UNDERDRAIN / LENGTH
•	MANHOLE	UDO XXX	UNDERDRAIN OUTLET PIPE
	PAVEMENT PATCH		
	PAVEMENT REMOVAL - TOPSOIL, SEED AND MULCH		LANDSCAPING
	PIPE & DIRECTIONAL FLOW ARROW	LS XXX	LANDSCAPE PLANTINGS
		_	- CUDUDDEDV

	TRAFFIC		
ITMS-CON	ITMS CONDUIT		
—— SIG-CON ——	SIGNAL CONDUIT		
	CONDUIT JUNCTION WELL		
· 	LUMINAIRE		
→	PAVEMENT MARKINGS		
	PAVEMENT STRIPING		
•	TRAFFIC SIGN		

SHRUBBERY

CONIFEROUS TREE

DECIDUOUS TREE

	AVEMENT SECTION(S)		
		OVERLAY PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
		RECONSTRUCTED PAVEMENT - SEE TYPICAL SECTIONS FOR MATERIALS AND DEPTHS	
		DRIVEWAY AND ENTRANCE PAVEMENT - SEE NOTES FOR MATERIALS AND DEPTHS	

EROSIG	ON & SEDIMENT CONTROL
—— CFL ——	COMPOST FILTER LOG
<u>CFL</u>	COMPOST FILTER LOG / LENGTH
- DWBAG	DEWATERING BAG
- DWB	DEWATERING BASIN
· ED	EARTH DIKE
	INLET SEDIMENT CONTROL
· 	PERIMETER DIKE/SWALE
·PST)·	PORTABLE SEDIMENT TANK
SBD	SANDBAG DIKE
SB	SANDBAG DIVERSION
	COMPOST FILTER LOG CHECK DAM
SSISCE SO	STABILIZED CONSTRUCTION ENTRANCE
SF	SILT FENCE / LENGTH
——— SF———	SILT FENCE
RSP	REINFORCED SILT FENCE / LENGTH
—— RSF ——	REINFORCED SILT FENCE
SSF	SUPER SILT FENCE / LENGTH
—— SSF ——	SUPER SILT FENCE
SP	SUMP PIT
ST	SEDIMENT TRAP / NUMBER
ST	SEDIMENT TRAP
SI	SEDIMENT TRAP WITH INLET AS OUTLET
<u>Q</u> -	SEDIMENT TRAP PIPE OUTLET
SW SW	STILLING WELL
	TEMPORARY SWALE
TSD	TEMPORARY SLOPE DRAIN
T	TURBIDITY CURTAIN / LENGTH
——т—	TURBIDITY CURTAIN

UTILI	TY COMPANY FACILITIES
——DEC-E——	DELAWARE ELECTRIC CO-OP
sc-s	SUSSEX COUNTY SANITARY SEWER
———TU-W ———	TIDEWATER UTILITIES
VER-C	VERIZON
——————————————————————————————————————	CHESAPEAKE UTILITIES

ADDENDA / REVISIONS

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A	
T202400002		14/74	1
T202400902	DECICNED DV.	VAC BLALIBAABI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

P.C.C. SIDEWALK - 4"

UNDERDRAIN OUTLET

UNDERDRAIN

——— PE———- PROPOSED PERMANENT EASEMENT

-----R/W-DA------ PROPOSED R/W & DENIAL OF ACCESS

RIGHT-TO-ENTER

P.C.C. SIDEWALK - 6" (USE 8" DEPTH FOR CHANNELIZATION ISLANDS.)

RIGHT-OF-WAY SYMBOLS

PROPOSED RIGHT-OF-WAY MONUMENT

TEMPORARY CONSTRUCTION EASEMENT

PROPOSED RIGHT-OF-WAY BASELINE

PROPOSED DENIAL OF ACCESS

PROPOSED RIGHT-OF-WAY

RIPRAP

———TCE———

100+00

GENERAL NOTES

- 1. THIS PROJECT IS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS", DATED AUGUST 2020 AND THE DELAWARE DEPARTMENT OF TRANSPORTATION "STANDARD CONSTRUCTION DETAILS", DATED 2022.
- 2. ELECTRONIC DESIGN DATA FILES THAT WILL BE MADE AVAILABLE TO THE BIDDERS INCLUDE:

()	NONE
(X)	ASCII DATA FILES WITH COORDINATES AND ELEVATIONS FOR PROPOSED POINTS AS SELECTED BY THE ENGINEER.
(X)	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D TRIANGLES REPRESENTING THE EXISTING SURFACE.
()	DESIGN FILE, IN .DGN FILE FORMAT, THAT CONTAINS 3D FEATURE LINES FOR THE PROPOSED DESIGN. 3D FEATURE LINES ARE FOR THE PROPOSED TOP SURFACE ELEVATION ONLY.

NOTE: THE DOCUMENT ENTITLED "ELECTRONIC FILE SHARING RELEASE" MUST BE SIGNED BY ALL PARTIES PRIOR TO THE DELIVERY OF ANY ELECTRONIC PROJECT FILES.

NOTE: THERE MAY BE SOME AREAS OF THE PROJECT NOT INCLUDED IN THE ELECTRONIC DESIGN DATA FILE(S). IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE DESIGN DATA FILE AND DETERMINE THE LIMITS OF THE PROJECT INCLUDED.

3. PROJECT FILES THAT WILL BE MADE AVAILABLE TO THE CONTRACTOR, INCLUDE:

(X)	CROSS SECTIONS
(X)	RIGHT-OF-WAY PLANS

PROJECT NOTES

SECTION 100

- 1. ANY DAMAGE TO ITEMS NOTED TO BE RELOCATED OR RESET BY THE CONTRACTOR, AT THE DISCRETION OF THE ENGINEER, SHALL BE REPAIRED AND/OR REPLACED IN KIND AT THE CONTRACTOR'S EXPENSE.
- 2. THE CONTRACTOR WILL CONTACT THE DELAWARE TMC AT 302-659-4600 PRIOR TO ANY UNMANNED AERIAL VEHICLE (UAV)
 FLIGHTS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE FOLLOWING INFORMATION: THE REGISTRATION NUMBER OF THE
 UAV. THE FLIGHT TIME. LOCATION OF THE FLIGHT. THE PILOT'S NAME AND THE PILOT'S CONTACT NUMBER DURING THE FLIGHT.
- 3. A NIGHT WORK SURVEY OF ADJACENT PROPERTY OWNERS WAS CONDUCTED AND LOCAL NOISE ORDINANCES HAVE BEEN VERIFIED.
 NIGHT WORK IS PERMITTED ON THIS CONTRACT.

SECTION 200

- 4. THE CONTRACTOR SHALL REMOVE AND RESET ALL MAILBOXES TO MAINTAIN MAIL SERVICE AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RELOCATE MAILBOXES AS REQUIRED BY THE PROPOSED GEOMETRICS AND AS DIRECTED BY THE ENGINEER. WHEN RELOCATING MAILBOXES IN CURBED SECTIONS, THE FACE OF THE MAILBOX SHALL BE FLUSH WITH THE BACK EDGE OF CURB. WHEN RELOCATING MAILBOXES IN OPEN SECTIONS, THE FACE OF THE MAILBOX SHALL SET BACK 8 INCHES FROM THE EDGE OF THE PAVED SHOULDER. THE BOTTOM OF THE MAILBOX SHALL BE POSITIONED IN ACCORDANCE WITH THE LATEST VERSION OF THE UNITED STATES POSTAL SERVICE GUIDELINES. MAILBOXES LOCATED AT DRIVEWAY ENTRANCES SHALL BE PLACED ON THE FAR SIDE OF THE DRIVEWAY IN THE DIRECTION OF TRAVEL. POSTS BEING RESET IN CONCRETE SIDEWALK SHALL BE IN AN APPROPRIATE SIZE PVC SLEEVE. ACCEPTABLE POST SHALL BE 4 INCH X 4 INCH WOOD POST OR 4 INCH DIAMETER WOOD POST. FOR RELOCATING MULTIPLE MAILBOXES TOGETHER ALL POST SHALL BE SEPARATED BY A DISTANCE OF NO LESS THAN 3/4 OF THEIR FULL HEIGHT ABOVE THE GROUND. MULTIPLE MAILBOXES ATTACHED TO A SINGLE HORIZONTAL BOARD SHALL NOT BE LOCATED INSIDE THE CLEARZONE. EACH MAILBOX SHALL BE PLACED ON AN INDIVIDUAL POST MEETING THE CRITERIA ABOVE. ALL MAILBOXES SHALL BE SET NOT TO IMPEDE THE MINIMUM PAR (PEDESTRIAN ACCESS ROUTE) WIDTH AS DETERMINED BY THE CURRENT EDITION OF THE PEDESTRIAN ACCESSIBILITY STANDARDS FOR FACILITIES IN THE PUBLIC RIGHT OF WAY.IF MAILBOXES ARE NOT SET IN ACCORDANCE WITH THE ABOVE DIRECTIONS, RESETTING OF THE MAILBOXES WILL BE AT THE COST OF THE CONTRACTOR. COST FOR ALL WORK AND MATERIALS SHALL BE PAID UNDER ITEM 201000 CLEARING AND GRUBBING.
- 5. ITEMS TO BE REMOVED UNDER ITEM 211000 REMOVAL OF STRUCTURES AND OBSTRUCTIONS SHALL INCLUDE, BUT NOT BE LIMITED
- TO THE FOLLOWING: a. POSTS
- b. BOLLARDS c. FENCES
- d. WELLS
- 6. ONLY EXISTING FEATURES WITHIN THE LOC IDENTIFIED WITH REMOVE BY CONTRACTOR OR BY OTHER METHODS ARE TO BE REMOVED OR DISTURBED.

SECTION 400

7. THE PAVEMENT SECTION FOR FLEXIBLE PAVEMENT RESIDENTIAL DRIVEWAYS SHALL BE 2" BITUMINOUS CONCRETE, TYPE 'C' OVER 8" GRADED AGGREGATE BASE COURSE UNLESS OTHERWISE NOTED ON THE PLANS.

SECTION 600

8. STATION AND ELEVATION DATA GIVEN FOR DRAINAGE STRUCTURES ARE TO BE APPLIED TO THE CENTER OF THE GRATE FOR INLETS AND TO THE CENTER OF THE STRUCTURE FOR JUNCTION BOXES AND MANHOLES.

SECTION 700

- 9. PORTLAND CEMENT CONCRETE CHANNELIZING ISLANDS THAT ARE LESS THAN 75 SQ FT MAY BE POURED MONOLITHICALLY, OR AS DIRECTED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL DELIVER ALL EXCESS MILLED MATERIAL TO THE DELAWARE DEPARTMENT OF TRANSPORTATION'S AREA 20 MAINTENANCE YARD. THE MATERIAL SHALL BE NEATLY STOCKPILED AT THE YARD. COSTS FOR THIS WORK SHALL BE INCIDENTAL TO THE MILLING ITEM UTILIZED FOR PAYMENT ON THE CONTRACT.
- 11. ALL PAVED AREAS TO BE RECONSTRUCTED OR WIDENED SHALL BE SAWCUT AT THE POINT WHERE THE NEW PAVEMENT IS TO TIE INTO THE EXISTING PAVEMENT.

SECTION 900

12. THIS PROJECT IS COVERED UNDER AN NPDES GENERAL PERMIT FOR CONSTRUCTION. UNDER THE GENERAL PERMIT, COMPLIANCE WITH DELDOT'S APPROVED SEDIMENT AND STORMWATER MANAGEMENT PLANS WILL CONSTITUTE COMPLIANCE WITH THE NPDES INDUSTRIAL PERMITTING REQUIREMENTS FOR THIS CONSTRUCTION PROJECT. A COPY OF THE NPDES GENERAL PERMIT AND NOI IS KEPT ON FILE IN EACH OF THE CONSTRUCTION OFFICES AND THE DEPARTMENT'S STORMWATER SECTION. A COPY OF THE GENERAL PERMIT OR THE NOI CAN BE OBTAINED UPON REQUEST FROM EITHER THE DEPARTMENT'S STORMWATER ENGINEER OR THE APPROPRIATE CONSTRUCTION ENGINEER.

MISCELLANEOUS

- 13. THE CONTRACTOR SHALL NOTIFY DART FIRST STATE AT DOT_DETOURS@DELAWARE.GOV AT LEAST 14 DAYS PRIOR TO THE START OF ANY DETOURS OR CONSTRUCTION, AND DOT_DTC_PROJECTDEVELOPMENT@DELAWARE.GOV AT SUCH TIME THE FACILITY IS COMPLETED AND OPERABLE FOR TRANSIT OPERATIONS. FOR EMERGENCY DETOUR INFORMATION ONLY, PLEASE CONTACT DTC'S CHIEF SCHEDULER AT 302-576-6019.
- 14. ALL DART SIGNS HAVE BEEN UPDATED TO A NEW DESIGN. THE DELDOT SIGN SHOP DOES NOT FABRICATE THE UPDATED SIGN OR ANY SUPPLEMENTAL PLAQUES TO ALLOW FOR ADDITIONAL ROUTE NUMBERS. ALL REQUESTS FOR FABRICATION OF THESE SIGNS MUST BE MADE THROUGH DART TRANSIT AT (302) 576-6132.
- 15. ANY STAGING AND/OR STOCKPILE AREA(S) OUTSIDE THE PROJECT'S LIMIT OF CONSTRUCTION (LOC) THAT INDIVIDUALLY OR CUMULATIVELY ARE LARGER THAN 10,000 SQUARE FEET, MUST BE APPROVED BY DELDOT'S ARCHAEOLOGIST. CONTACT THE CONSTRUCTION AREA ENGINEER WHO WILL COORDINATE WITH DELDOT'S ARCHAEOLOGIST.

WITHIN 30 DAYS, DELDOT WILL;

- 1) APPROVE THE USE OF THE PROPOSED STAGING AND STOCKPILE AREA(S);
- 2) REJECT THE REQUEST; OR
- 3) PERFORM AN ARCHAEÓLOGICAL SURVEY TO DETERMINE WHETHER TO APPROVE OR REJECT THE REQUEST, WHICH MAY TAKE UP TO 3 MONTHS. IF AN ARCHAEOLOGICAL SURVEY IS NECESSARY, DELDOT OR A CONSULTANT ON ITS BEHALF WILL UNDERTAKE THE SURVEY.

NOT TO SCALE

16. ALL NECESSARY RIGHT OF WAY FOR THIS PROJECT WAS ACQUIRED UNDER CONTRACT T201200902.

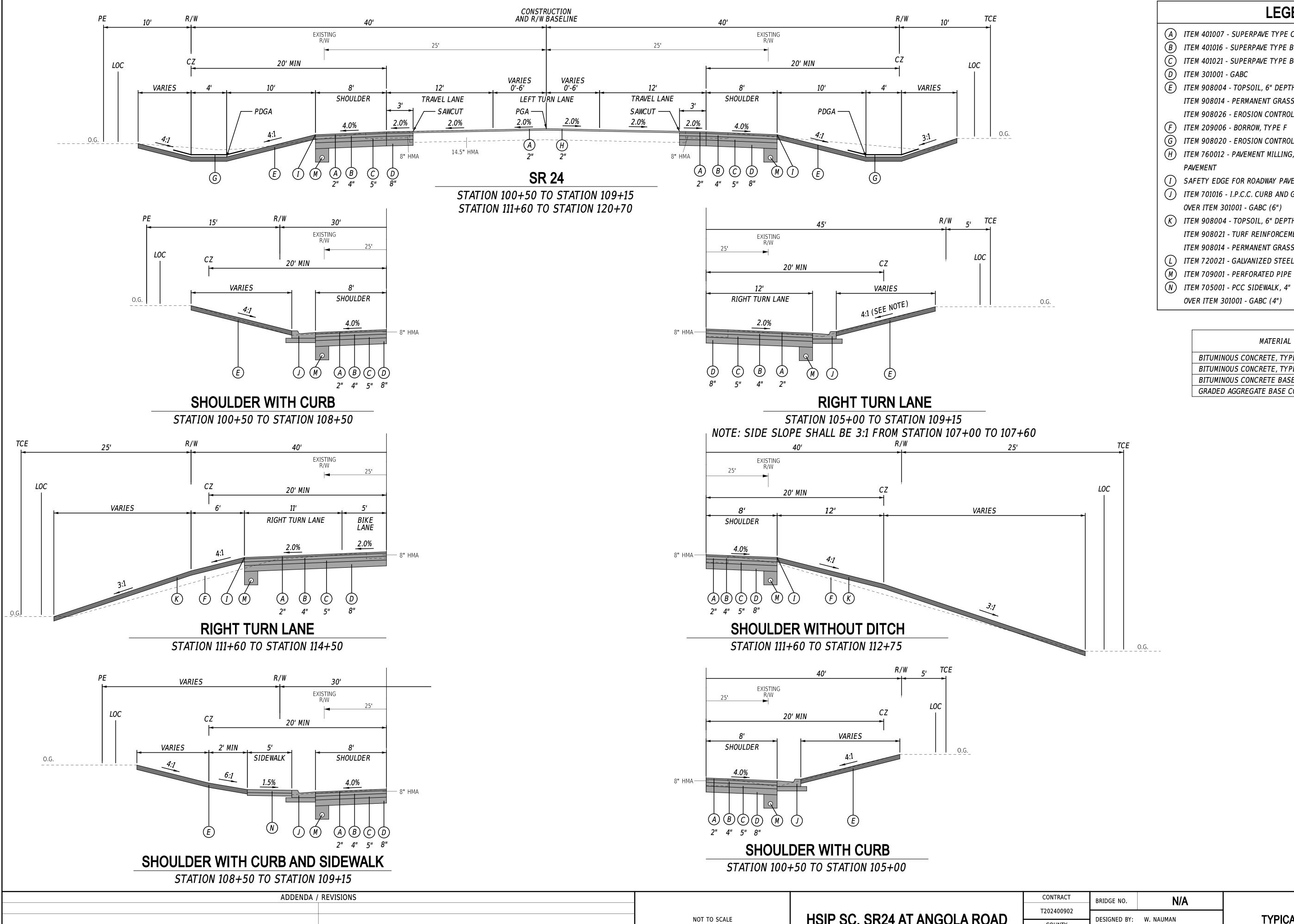
EARTHWORK SUMMARY	
EXCAVATION	
EXCAVATION FROM CROSS SECTIONS	12439 C.Y
ROCK EXCAVATION FOR ROADWAY AND TRENCHES	0 C.Y
TOPSOIL STRIPPING	0 C.Y
TOTAL EXCAVATION	12439 C.Y
EXCAVATION AVAILABLE FOR EMBANKMENT	
EXCAVATION MEETING BORROW TYPE 'A'	0 C.Y
EXCAVATION MEETING BORROW TYPE 'F'	0 C.Y
EXCAVATION MEETING TOPSOIL	634 C.Y
EMBANKMENT REQUIREMENTS	
BORROW TYPE 'A' REQUIRED (INCLUDING UNDERCUT)	1243 C.Y
BORROW TYPE 'F' REQUIRED	2291 C.Y
TOPSOIL REQUIRED	3095 C.Y
MATERIAL BALANCE ("+"= EXCESS, "-"= NEED)	
BORROW TYPE 'A'	-1243 C.Y
BORROW TYPE 'F'	-2291 C.Y
TOPSOIL	2461 C.Y
UNSUITABLE MATERIAL	12439 C.Y

NOTE.

- 1) THE VALUES LISTED IN THE EARTHWORK SUMMARY ARE APPROXIMATE AND ARE NOT TO BE USED AS A BASIS OF PAYMENT. THE EARTHWORK SUMMARY IS CONSIDERED FOR INFORMATIONAL PURPOSES ONLY.
- 2) OTHER SOURCES OF EXCAVATION MAY INCLUDE PIPE TRENCH EXCAVATION, STRUCTURE EXCAVATION, UNDERCUT EXCAVATION, STORMWATER MANAGEMENT POND EXCAVATION, ENVIRONMENTAL SITE EXCAVATION, MAINTENANCE OF TRAFFIC EXCAVATION, ETC.
- 3) UNSUITABLE MATERIALS INCLUDE UNDERCUT SOILS, BITUMINOUS PAVEMENT, ETC.

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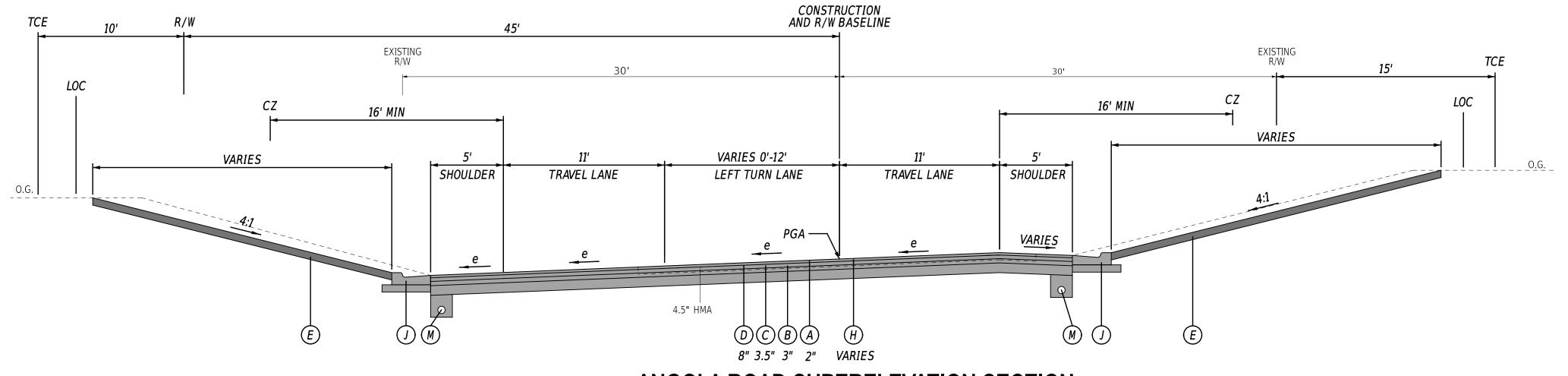
CONTRACT	BRIDGE NO.	N/A
T202400002		14// \
T202400902	DECICNED DV.	VAC BLALIBAANI
COUNTY	DESIGNED BY:	W. NAUMAN
SUSSEX	CHECKED BY:	J. GAINES



LEGEND

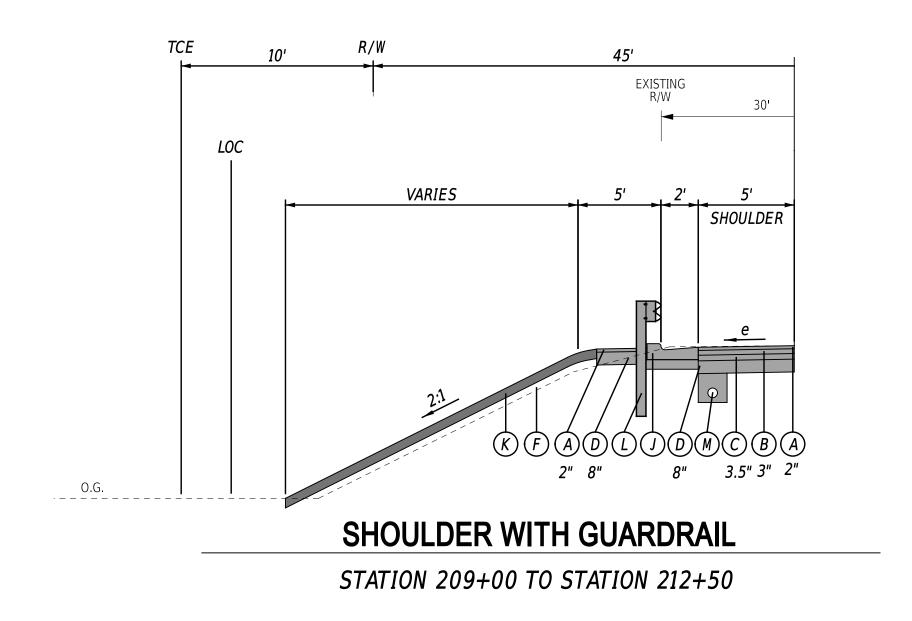
- (A) ITEM 401007 SUPERPAVE TYPE C, PG 76-22
- (B) ITEM 401016 SUPERPAVE TYPE B, PG 76-22
- (C) ITEM 401021 SUPERPAVE TYPE BCBC, PG 64-22
- (D) ITEM 301001 GABC
- (E) ITEM 908004 TOPSOIL, 6" DEPTH
 - ITEM 908014 PERMANENT GRASS SEEDING, DRY GROUND
 - ITEM 908026 EROSION CONTROL MULCH
- (F) ITEM 209006 BORROW, TYPE F
- (G) ITEM 908020 EROSION CONTROL BLANKET MULCH (8' WIDTH MIN.)
- (H) ITEM 760012 PAVEMENT MILLING, BITUMINOUS CONCRETE
- (I) SAFETY EDGE FOR ROADWAY PAVEMENT
- (J) ITEM 701016 I.P.C.C. CURB AND GUTTER, TYPE 1-4
 - OVER ITEM 301001 GABC (6")
- (K) ITEM 908004 TOPSOIL, 6" DEPTH
 - ITEM 908021 TURF REINFORCEMENT MAT, TYPE 1
 - ITEM 908014 PERMANENT GRASS SEEDING, DRY GROUND
- (L) ITEM 720021 GALVANIZED STEEL BEAM GUARDRAIL
- M) ITEM 709001 PERFORATED PIPE UNDERDRAIN, 6"
 - OVER ITEM 301001 GABC (4")

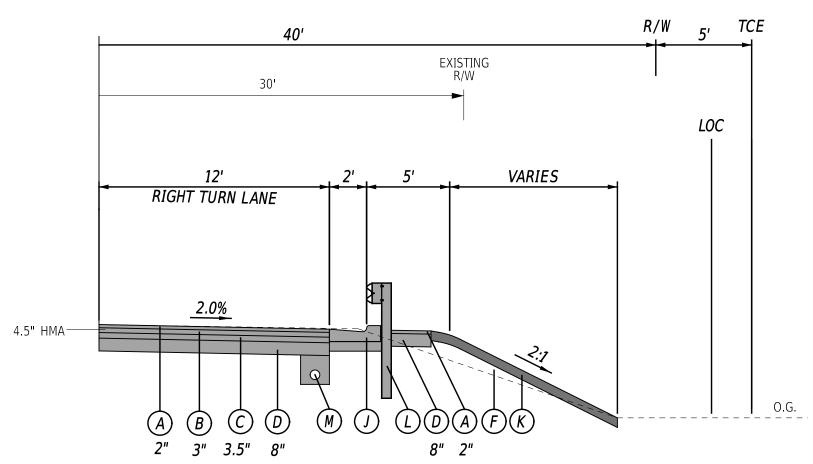
MATERIAL	LIFT THI	CKNESS
MAIERIAL	MINIMUM	MAXIMUM
BITUMINOUS CONCRETE, TYPE 'C'	1.25"	2"
BITUMINOUS CONCRETE, TYPE 'B'	2.25"	4"
BITUMINOUS CONCRETE BASE COURSE	3"	6"
GRADED AGGREGATE BASE COURSE	4"	8"



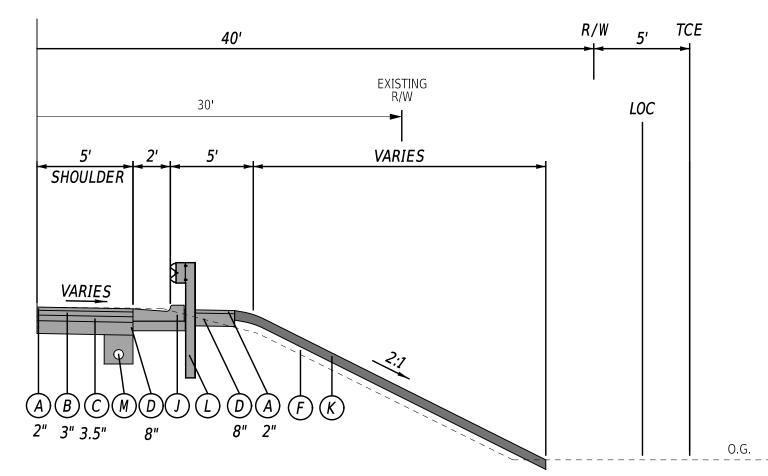
ANGOLA ROAD SUPERELEVATION SECTION

STATION 206+50 TO STATION





RIGHT TURN LANE WITH GUARDRAIL



SHOULDER WITH GUARDRAIL

ADDENDA /	REVISIONS

HSIP SC NOT TO SCALE

CONTRACT	BRIDGE NO.	N/A	
T202400002		14// \	ĺ
T202400902	DECICNED BY	VAV. NIALIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

TYPICAL SECTIONS

LEGEND

ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND

(G) ITEM 908020 - EROSION CONTROL BLANKET MULCH (8' WIDTH MIN.)

(H) ITEM 760012 - PAVEMENT MILLING, BITUMINOUS CONCRETE

(J) ITEM 701016 - I.P.C.C. CURB AND GUTTER, TYPE 1-4

ITEM 908021 - TURF REINFORCEMENT MAT, TYPE 1

(L) ITEM 720021 - GALVANIZED STEEL BEAM GUARDRAIL

M) ITEM 709001 - PERFORATED PIPE UNDERDRAIN, 6"

BITUMINOUS CONCRETE, TYPE 'C' BITUMINOUS CONCRETE, TYPE 'B'

BITUMINOUS CONCRETE BASE COURSE

GRADED AGGREGATE BASE COURSE

ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND

MATERIAL

LIFT THICKNESS

MAXIMUM

4"

6"

8"

MINIMUM

2.25"

3"

4"

(A) ITEM 401007 - SUPERPAVE TYPE C, PG 76-22

(B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22

E ITEM 908004 - TOPSOIL, 6" DEPTH

(F) ITEM 209006 - BORROW, TYPE F

(I) SAFETY EDGE FOR ROADWAY PAVEMENT

OVER ITEM 301001 - GABC (6")

K ITEM 908004 - TOPSOIL, 6" DEPTH

N ITEM 705001 - PCC SIDEWALK, 4"

OVER ITEM 301001 - GABC (4")

(D) ITEM 301001 - GABC

PAVEMENT

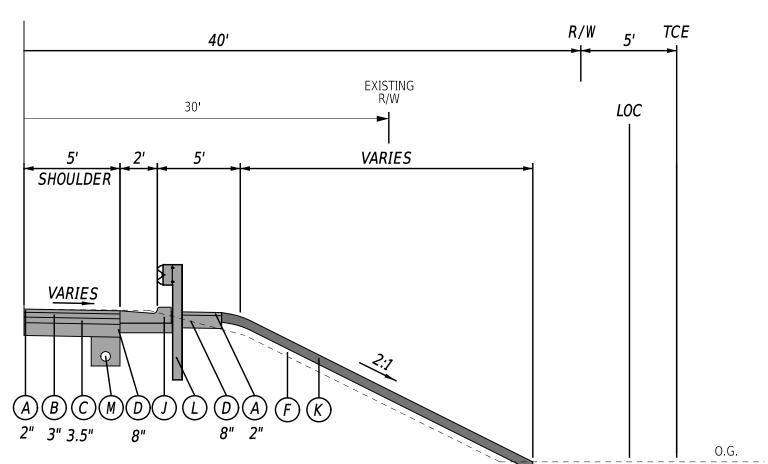
(C) ITEM 401021 - SUPERPAVE TYPE BCBC, PG 64-22

ITEM 908026 - EROSION CONTROL MULCH

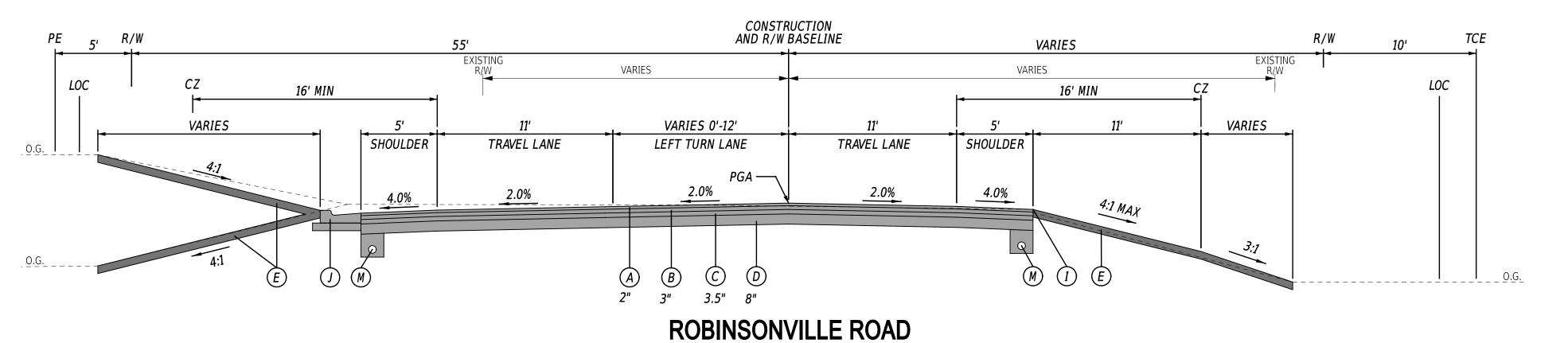
SHEET NO.

4	0'			R/W 5	, TCI
30'		EXIS R.	TING /W		
30		-			
				LO	oc
12'	2'	<u>5′</u>	VARIES	-> I	
RIGHT TURN LANE					
2.0%					

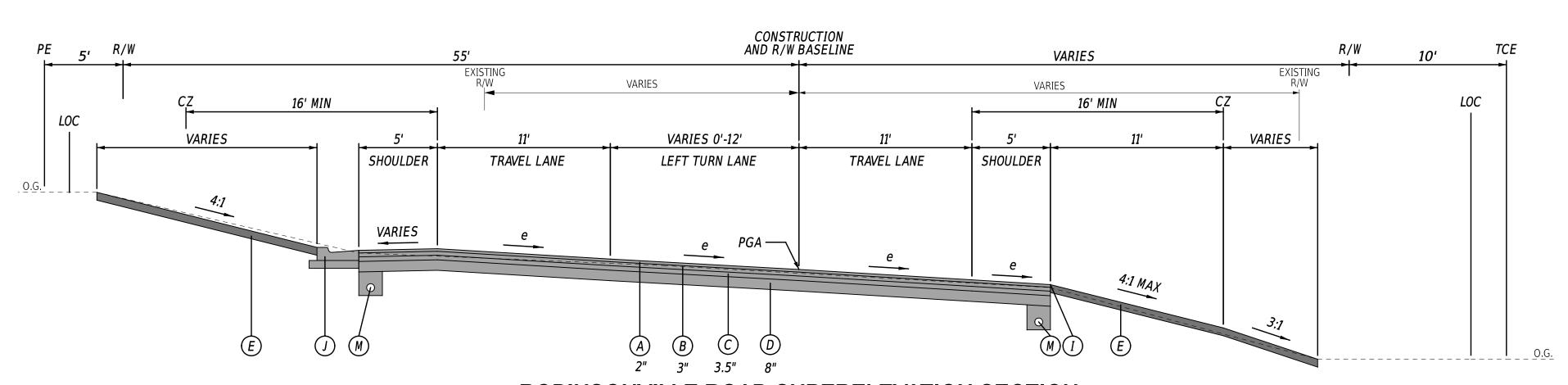
STATION 212+00 TO STATION 214+00



STATION 210+25 TO STATION 212+00

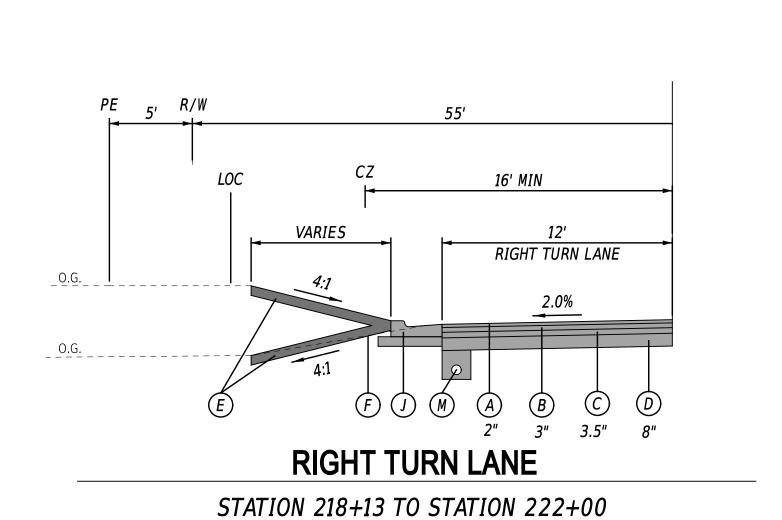


STATION 225+20 TO STATION 225+40

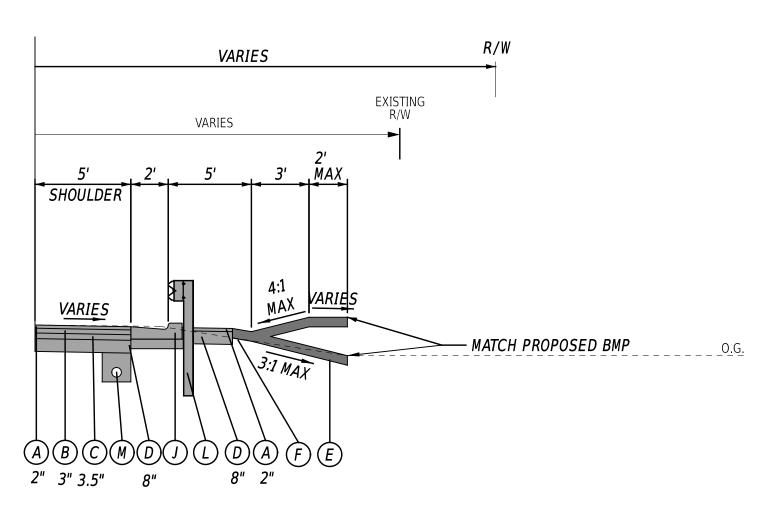


ROBINSONVILLE ROAD SUPERELEVATION SECTION

STATION 218+13 TO STATION 225+20



18-SEP-2023 16:39 \\DOTFS08\ca



SHOULDER WITH GUARDRAIL

STATION 218+13 TO STATION 222+56

CONTRACT	BRIDGE NO.	N/A	
T202400002			
T202400902	DECICNED BY	AV NIALIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

TYPICAL SECTIONS

LEGEND

ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND

(G) ITEM 908020 - EROSION CONTROL BLANKET MULCH (8' WIDTH MIN.)

(H) ITEM 760012 - PAVEMENT MILLING, BITUMINOUS CONCRETE

(J) ITEM 701016 - I.P.C.C. CURB AND GUTTER, TYPE 1-4

ITEM 908021 - TURF REINFORCEMENT MAT, TYPE 1

(L) ITEM 720021 - GALVANIZED STEEL BEAM GUARDRAIL

M) ITEM 709001 - PERFORATED PIPE UNDERDRAIN, 6"

BITUMINOUS CONCRETE, TYPE 'C'

BITUMINOUS CONCRETE, TYPE 'B'

BITUMINOUS CONCRETE BASE COURSE

GRADED AGGREGATE BASE COURSE

ITEM 908014 - PERMANENT GRASS SEEDING, DRY GROUND

MATERIAL

LIFT THICKNESS

MINIMUM

2.25"

3"

4"

MAXIMUM

4"

6"

8"

(A) ITEM 401007 - SUPERPAVE TYPE C, PG 76-22

(B) ITEM 401016 - SUPERPAVE TYPE B, PG 76-22

(E) ITEM 908004 - TOPSOIL, 6" DEPTH

(F) ITEM 209006 - BORROW, TYPE F

(I) SAFETY EDGE FOR ROADWAY PAVEMENT

OVER ITEM 301001 - GABC (6")

(K) ITEM 908004 - TOPSOIL, 6" DEPTH

N ITEM 705001 - PCC SIDEWALK, 4"

OVER ITEM 301001 - GABC (4")

(D) ITEM 301001 - GABC

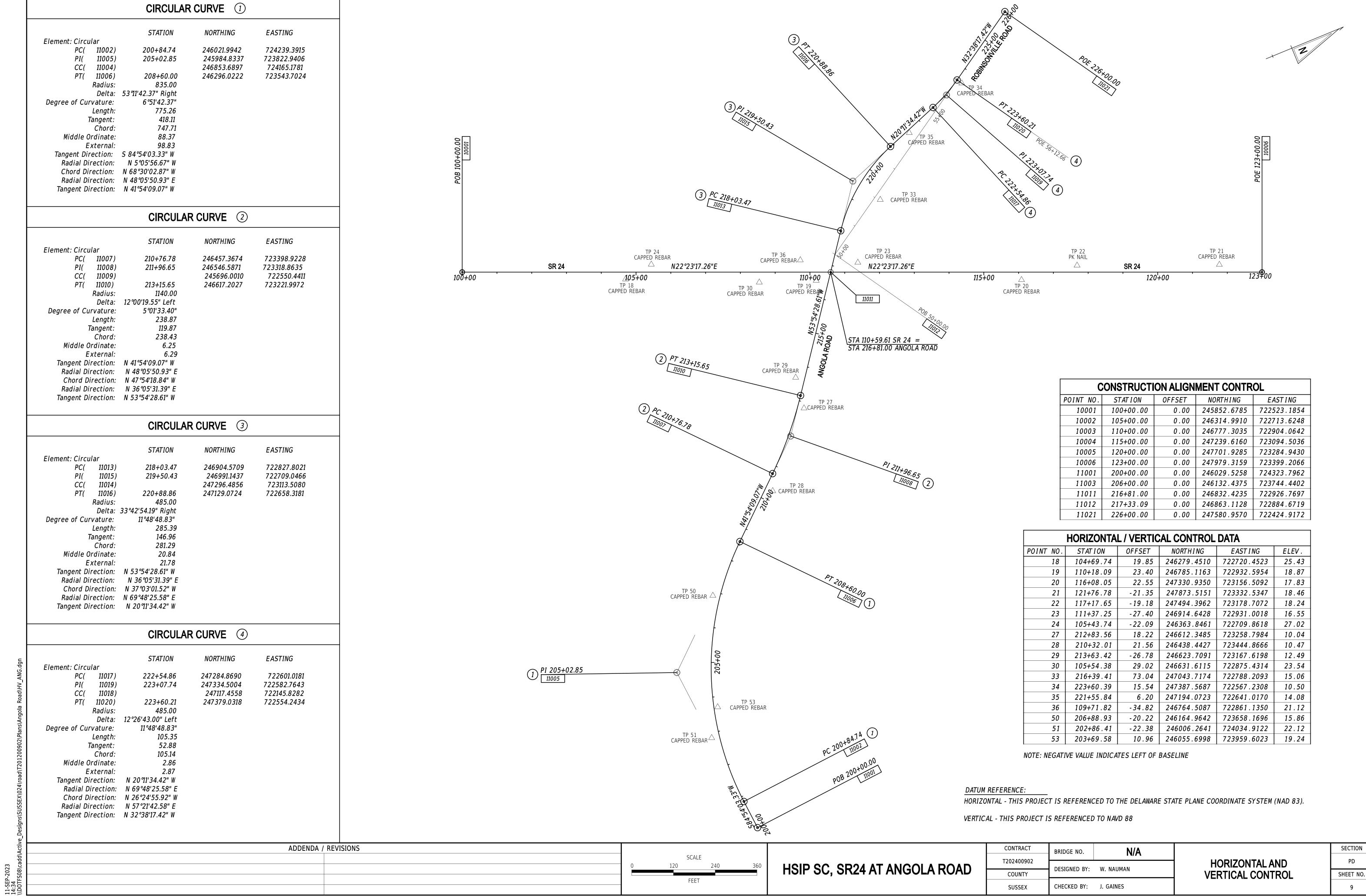
PAVEMENT

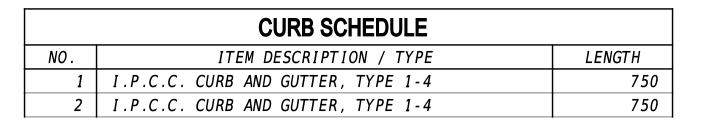
(C) ITEM 401021 - SUPERPAVE TYPE BCBC, PG 64-22

ITEM 908026 - EROSION CONTROL MULCH

SHEET NO.

ADDENDA / REVISIONS HSIP SC, SR24 AT ANGOLA ROAD NOT TO SCALE





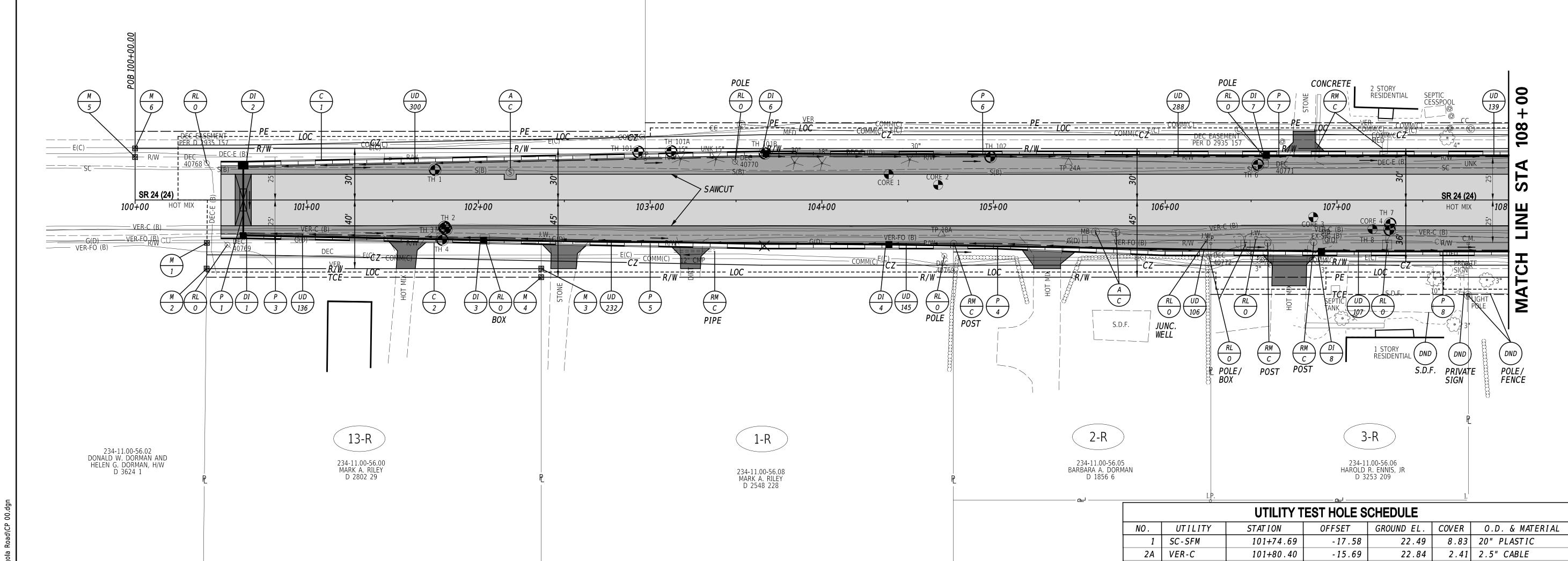
RIGHT-OF-WAY MONUMENT SCHEDULE						
NO.	O. TYPE STATION OFFSET NORTHING EASTING					
1	CAPPED REBAR	100+41.83	25.00	245881.8374	722562.2348	
2	CAPPED REBAR	100+41.67	40.00	245875.9727	722576.0417	
3	CAPPED REBAR	102+36.58	40.00	246056.1950	722650.2803	
4	CAPPED REBAR	102+36.58	45.00	246054.2906	722654.9034	
5	CAPPED REBAR	100+00.00	25.00	245862.2004	722500.0697	
6	CAPPED REBAR	100+00.00	30.00	246054.2906	722654.9034	

	DRAINAGE PIPE SCHEDULE						
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.	
1	14" x 23" HERCP	IV	40.00	0.0030	18.34	18.22	
3	18" RCP	IV	136.00	0.0030	18.02	17.61	
4	21" RCP	IV	248.00	0.0030	16.51	15.76	
5	18" RCP	IV	232.00	0.0030	17.41	16.71	
6	15" RCP	IV	288.00	0.0079	21.65	19.37	
7	15" RCP	IV	200.00	0.0125	19.17	16.67	
8	21" RCP	IV	168.00	0.0030	15.56	15.04	
•		•					

	DRAINAGE INLET SCHEDULE						
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.	
1	100+62.96	*	48" x 30"	1	**	18.02	
2	100+63.00	*	72" x 48"	1	**	18.34	
3	102+02.34	*	48" x 30"	1	**	17.41	
4	102+03.02	*	48" x 48"	1	**	16.51	
6	103+66.96	*	34" x 24"	1	**	21.65	
7	106+58.96	*	34" x 24"	1	**	19.17	
8	106+90.96	*	48" x 48"	1	**	15.56	

*MATCH CURB FLOWLINE OFFSET **MATCH CURB FLOWLINE ELEVATION

234-11.00-60.01 CARLTON 0. DORMAN 234-11.00-59.05 CENTER FOR NEUROLOGY PROPERTIES, LLC



NOTE: EXTEND MILL AND OVERLAY 400' WEST OF STA. 100+00, AS DIRECTED BY THE ENGINEER.

ADDENDA / REVISIONS

	ROADWAY CORE SCHEDULE				
NO.	STATION	OFFSET	DESCRIPTION		
1	104+38.93	- 15.00	7.5" HMA / 1" ST		
2	104+67.70	-8.79	14.5" HMA / 6" FILL		
3	106+86.22	9.95	8" HMA / 8" PCC		
4	107+20.70	16.97	8" HMA		

2B	VER-C	101+80.40	- 15 . 69	22.84	3.17	2" CABLE
2C	VER-C	101+81.15	- 17 . 02	22.78	2.79	3" CABLE
3	VER-C	101+80.00	-16.02	22.77	2.67	1" CABLE
4	VER-FO	101+78.53	23.16	23.67	1.48	2.5" PVC
6A	DEC - E	106+53.95	20.59	26.91	-	PROBED 15'
6B	UNKNOWN	106+53.95	20.59	26.91	2.48	1" CABLE
7	UNKNOWN	107+31.04	13.83	25.47	0.86	CONCRETE
8	DELDOT	107+30.69	17.46	25.21	2.10	2" METAL
101	DEC - E	102+93.11	- 28 . 08	23.59	4.36	(3) 6" CONDUIT
101A	DEC - E	103+12.29	- 28 . 35	23.57	4.55	(2)3"CAB&(2)6"COND
101B	DEC - E	103+93.96	- 27 . 18	24.10	9.17	(2)3"CAB&(2)6"COND
102	DEC - E	104+98.20	- 25 . 11	26.75	-	PROBED 23'

HSIP SC, SR24 AT ANGOLA ROAD	

CONTRACT	BRIDGE NO. N/A		
7202400002		14// \	
Г202400902	DECICNED DV.	AV NIALIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PLAN

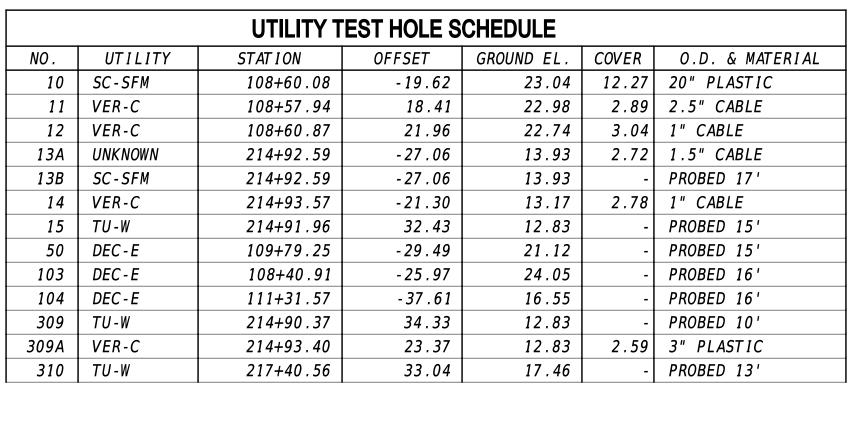
CP-01

SECTION

SHEET NO.

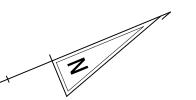
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26-SEP-2023 14:56 \\DOTFS08\ca



ROADWAY CORE SCHEDULE					
NO. STATION OFFSET DESCRIPTION					
5	109+70.23	60.00	6" HMA / 1" ST		
6	215+88.01	14.89	13" HMA		
7	111+77.63	-17.64	8" HMA		
8	113+02.52	13.77	6.25" HMA		

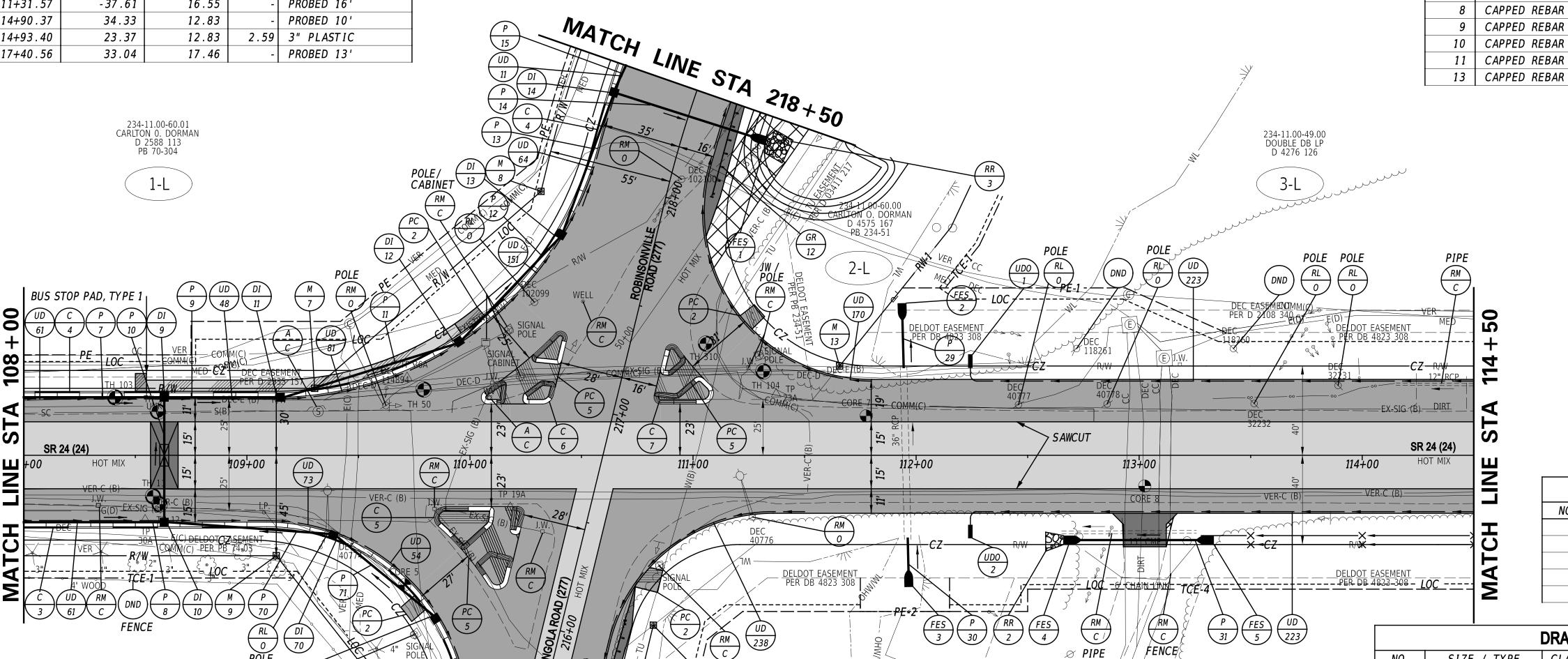
GUARDRAIL SCHEDULE				
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
1	GUARDRAIL END TREATMENT, TYPE 1-31	216+09.82	27.00	50
2	GALVANIZED STEEL BEAM, TYPE 1-31	214+50.00	25.00	110
12	GUARDRAIL END TREATMENT, TYPE 1-31	218+06.29	20.00	50



EASTING

722849.8014

722801.2933



•		·	
	UNE	ERDRAIN O	JTLETS
	NO.	LENGTH	DIS. EL.
	1	4.00	13.90
	2	4.00	14.32
	3	4.00	13.08

NORTHING

45.00 | 246679.8812 | 722912.6016

-45.00 | 246709.8014 | 723018.5859

40.00 | 246791.9949 | 722982.2273

-40.00 246945.7599 722930.1953

30.00 | 246724.3400 |

-45.00 246868.2077

RIGHT-OF-WAY MONUMENT SCHEDULE

OFFSET

STATION

109+30.36

218+03.47

109+13.17

215+34.57

216+12.37

111+65.71

CAPPED REBAR

CAPPED REBAR

RIPRAP SCHEDULE				
NO .	TYPE	AREA (SY)		
1	R - 4	5.00		
2	R - 4	5.00		
3	R - 4	13.00		

FLARED END SECTION SCHEDULE						
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE			
1	24" RCP	0.0063	NO			
2	36" RCP	0.0010	NO			
3	36" RCP	0.0010	NO			
4	18" RCP	0.0100	NO			
5	18" RCP	0.0100	NO			

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.	
9	21" RCP	IV	48.00	0.0069	14.45	14.12	
10	21" RCP	IV	52.00	0.0037	14.84	14.65	
11	21" RCP	IV	80.00	0.0073	13.92	13.34	
12	21" RCP	IV	64.00	0.0073	13.14	12.67	
13	24" RCP	IV	64.00	0.0073	12.47	12.00	
14	24" RCP	IV	64.00	0.0063	11.80	11.40	
15	15" RCP	IV	136.00	0.0025	12.19	11.85	
21	15" RCP	IV	216.00	0.0254	11.10	5.61	
29	36" RCP	IV	24.00	0.0010	4.68*	4.66	
30	36" RCP	IV	16.00	0.0010	4.78	4.76*	
31	18" RCP	IV	56.00	0.0100	15.03	14.47	
70	15" RCP	IV	72.00	0.0030	15.06	14.84	
71	15" RCP	IV	56.00	0.0030	15.23	15.06	
* VEDIEV	AND MATCH EVICTING	DIDE INVED	T INCOUCT AND	VEDIEV CONDI	TION OF EVICTIN	C DIDE IE	

* VERIFY AND MATCH EXISTING PIPE INVERT. INSPECT AND VERIFY CONDITION OF EXISTING PIPE. IF CONDITION IS DEEMED UNSATISFACTORY BY THE ENGINEER, REMOVE TO NEAREST INTACT JOINT.

DRAINAGE INLET SCHEDULE								
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.		
9	108+62.96	*	48" x 48"	1	**	14.45		
10	108+62.96	*	48" x 48"	1	**	14.84		
11	109+14.98	*	48" x 48"	1	**	13.92		
12	109+95.04	*	48" x 48"	1	**	13.14		
13	217+72.70	*	48" x 48"	1	**	12.47		
14	218+37.75	*	48" x 48"	1	**	11.80		
21	215+22.00	*	34" x 24"	4	**	11.10		
70	109+38.65	*	48" x 48"	1	**	15.06		
71	215+92.10	*	48" x 30"	4	**	15 _{.23}		

SEE STANDARD CONSTRUCTION DETAILS FOR DEPRESSED CURB REQUIREMENTS WITHIN THE LIMITS OF THE GUARDRAIL END TREATMENTS.

CURB SCHEDULE

ITEM DESCRIPTION / TYPE

FENCE

LENGTH

346

348 143

114

ADDENDA / REVISIONS

MATCH LINE STA 214+50

*I.P.C.C. CURB AND GUTTER, TYPE 1-4

** THE COST FOR CONTSTRUCTING THIS CURB IS INCIDENTAL TO ITEM 702000 - TRIANGULAR CHANNELIZING ISLANDS

3 | I.P.C.C. CURB AND GUTTER, TYPE 1-4

**P.C.C. CURB, TYPE 2 **P.C.C. CURB, TYPE 2

**P.C.C. CURB, TYPE 2

I.P.C.C. CURB AND GUTTER, TYPE 1-4

234-11.00-49.00 DOUBLE DB LP D 4276 126

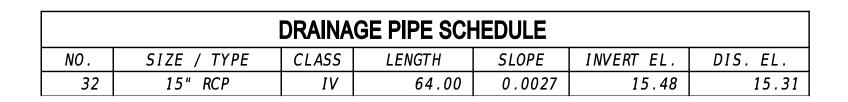
HSIP SC, SR24 AT ANGOLA ROAD

* MATCH CURB	FLOWLINE OFF	SET, ** MATCH CURB FLOW	VLINE ELEVATION
CONTRACT	BRIDGE NO.	N/A	
T202400902		14// \	
COUNTY	DESIGNED BY:	W. NAUMAN	CON
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PLAN

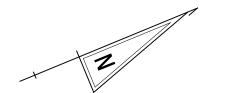
CP-02 SHEET NO.

19-SEP 13:26 \\DOTE



	ROADWAY CORE SCHEDULE								
	NO.	STATION	OFFSET	DESCRIPTION					
	9	115+68.45	- 17 . 09	6.5" HMA					
I	10	115+45.83	9.16	15.5" HMA					
-									

UTILITY TEST HOLE SCHEDULE								
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL		
16	VER-C	115+46.46	16.73	18.11	2.79	3" CABLE		
17	VER-C	115+46.09	19.24	17.97	2.24	1" CABLE		



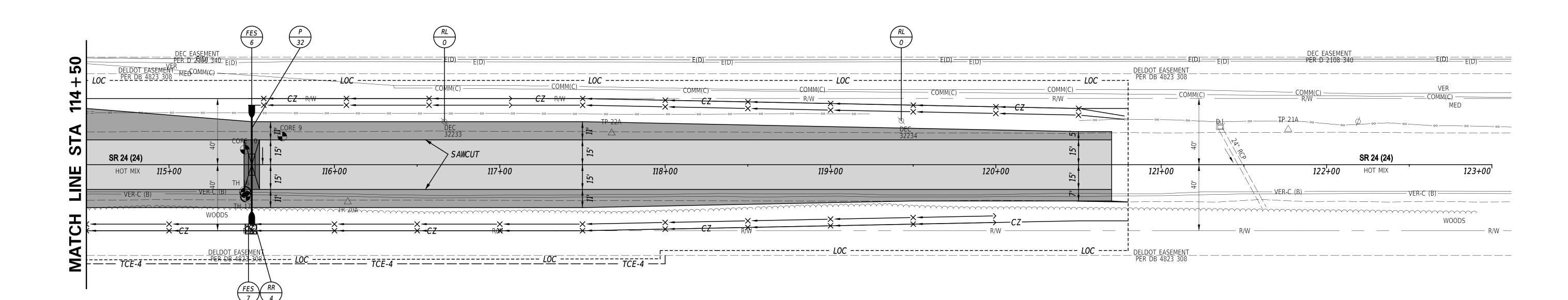
CP-03

FLARED END SECTION SCHEDULE						
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE			
6	15" RCP	0.0027	NO			
7	15" RCP	0.0027	NO			

RIPRAP SCHEDULE					
NO.	TYPE	AREA (SY)			
4	R - 4	5.00			

234-11.00-49.00 DOUBLE DB LP D 4276 126

3-L



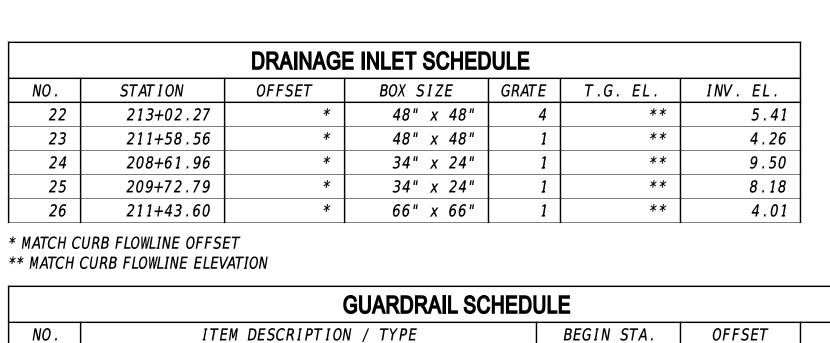
3-L

234-11.00-49.00 DOUBLE DB LP D 4276 126

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ADDENDA /	REVISIONS				
			SC	CALE	
		0	30	60	
			F	EET	

CONTRACT	BRIDGE NO.	N/A	
T202400902	DESIGNED BY:	W. NAUMAN	CONSTRUCTION PLAN
COUNTY	210:0::12		CONCINCOTION LAN
SUSSEX	CHECKED BY:	J. GAINES	



DRAINAGE PIPE SCHEDULE								
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.		
22	15" RCP	IV	136.00	0.0085	5.41	4.26		
23	14" x 23" HERCP	IV	8.00	0.0050	4.26	4.22		
24	15" RCP	IV	108.00	0.0104	9.50	8.38		
25	15" RCP	IV	168.00	0.0177	8.18	5.21		
26	29" x 45" HERCP	V	8.00	0.0025	4.03	4.01		
27	29" x 45" HERCP	V	52.00	0.0025	4.01	3.88		

	CURB SCHEDULE					
NO.	ITEM DESCRIPTION / TYPE	LENGTH				
9	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	117				
43	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	200				
44	*I.P.C.C. CURB AND GUTTER, TYPE 1-2	130				
45	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	246				
46	*I.P.C.C. CURB AND GUTTER, TYPE 1-2	130				
47	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	315				
48	*I.P.C.C. CURB AND GUTTER, TYPE 1-2	130				
49	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	377				

	FLARED END SECTION SCHEDULE								
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE						
10	29" x 45" RCP	0.0025	NO						
1 1	29" x 45" RCP	0.0025	NO						

234-11.00-56.03 DICK ENNIS, INC D 2926 348 PB 74-03

UD 104

234-11.00-49.00 DOUBLE DB LP D 4276 126

*	MATCH	CURB	FLOWLI	NE (OFFSET	Γ
ala al					E . E	T 10

GUARDRAIL SCHEDULE								
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH				
3	GUARDRAIL END TREATMENT, TYPE 1-31	209+00.00	- 26 . 25	50.00				
4	GALVANIZED STEEL BEAM, TYPE 1-31*	209+50.00	-28.00	250.00				
7	GUARDRAIL END TREATMENT, TYPE 1-31	212+00.00	- 30 . 00	50.00				
8	GUARDRAIL END TREATMENT, TYPE 1-31	210+26.78	18.00	50.00				
9	GALVANIZED STEEL BEAM, TYPE 1-31*	210+76.78	18.00	377.50				

234-11.00-55.00 DRY DOCK RECOVERY, INC. D 4617 8

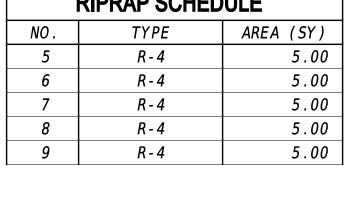
UNDERDRAIN OUTLETS						
NO.	LENGTH	DIS. EL.				
4	4.00	8.92				
5	4.00	7.58				

209+00

* SEE STANDARD CONSTRUCTION DETAILS FOR DEPRESSED CURB REQUIREMENTS WITHIN THE LIMITS OF THE GUARDRAIL END TREATMENTS.

234-11.00-56.02 DONALD W. DORMAN AND HELEN G. DORMAN D 3624 1

R	IPRAP SCHEI	DULE					
NO.	TYPE	AREA (SY)					
5	R - 4	5.00					
6	R - 4	5.00					
7	R - 4	5.00					
8	R - 4	5.00					
9	R - 4	5.00					
\ \ p		FENCE	7	1 STORY RESIDENT	(C	(



M 18	MED TP 50	5 6(D)	
NN	191		208+00
VER-CTBI ANGC	DLA ROAD (277)	7+00	
200+00	-CZ	TH 301	S(A)
S(B) VER-C (B		SC	
TU RING		23	1) 47)
	S) ***	234-11.00-52.01 SUSSEX COUNTY D 3667 125	
	.(— — ¶ ⑤ □	D 3667 125	

	UTILITY TEST HOLE SCHEDULE								
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL			
18A	COM-C	210+74.43	-21.36	8.20	6.68	(3) 4" PVC			
18B	VER & COM	211+81.25	- 19 . 48	8.17	2.05	1" & 2.5" CABLE			
19A	VER-C	210+73.44	- 19 . 02	8.47	1.98	1" CABLE			
19B	VER-C	211+59.50	17.91	6.81	2.26	2" CABLE			
21A	UNKNOWN	210+65.38	19.59	10.20	2.89	1" CABLE			
21C	UNKNOWN	211+77.56	16.49	9.61	2.89	1" CABLE			
22A	VER-C	210+65.47	24.11	9.79	2.54	3" CABLE			
22B	VER-C	211+79.06	22.14	9.21	3.79	4" PVC			
301	TU-W	207+40.45	16.66	13.74	-	PROBED 10'			
302	TU-W	208+83.00	16.11	12.17	-	PROBED 10'			
303	SC-S	208+51.99	10.20	12.63	4.56	16" PLASTIC			
304	SC-S	209+69.90	8.78	11.37	5.48	16" PLASTIC			
305	TU-W	211+46.34	19.42	9.33	-	PROBED 10'			

	UTILITY TEST HOLE SCHEDULE							
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIAL		
306	SC-S	211+45.84	15.83	9.32	-	PROBED 10'		
307	TU-W	212+36.56	18.24	9.61	-	PROBED 10'		
307A	VER-C	212+36.08	19.12	9.89	2.84	3" PLASTIC		
308	TU-W	213+04.35	21.76	9.75	3.20	16" PLASTIC		
317A	SC-S	211+17.24	8.15	9.32	7.04	20" PLASTIC		
317B	TU-W	211+17.90	20.43	9.49	8.20	16" PLASTIC		
318	TU-W	211+68.37	22.29	9.26	-	PROBED 4'		
318A	SC-S	211+68.05	7.77	9.06	6.51	20" PLASTIC		
318B	VER-C	211+85.77	20.50	9.22	3.49	4" CONDUIT		
318B	VER-C	211+86.13	21.49	9.28	5.88	2" CONDUIT		
319A	SC-S	212+18.80	7.65	9.51	6.45	20" PLASTIC		
319B	TU-W	212+51.51	19.92	10.06	8.22	16" PLASTIC		
320	TU-W	212+74.48	20.64	9.80	3.35	16" PLASTIC		
320A	TU-W	212+46.27	19.70	9.89	8.82	16" PLASTIC		

	ROADWAY CORE SCHEDULE								
NO.	STATION	OFFSET	DESCRIPTION						
11	212+42.83	-7.23	4.5" HMA / 6" CR						

234-11.00-56.09 RENDALL WHIBLEY AND ANN MARIE WHIBLEY, H/W D 4031 164 PB 74-03

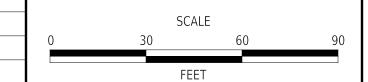
5-L

H 318A 212+00

211+00 TH 317A

RIGHT-OF-WAY MONUMENT SCHEDULE									
NO.	TYPE	STATION	OFFSET	NORTH I NG	EASTING				
17	CONCRETE	208+60.00	40.00	246322.7368	723573.4737				
18	CAPPED REBAR	206+20.00	-30.00	246117.1772	723711.5544				
19	CAPPED REBAR	206+20.00	-40.00	246108.6627	723706.3102				
20	CONCRETE	208+60.00	-40.00	246269.3076	723513.9311				
21	CAPPED REBAR	209+50.00	- 45 . 00	246332.9537	723450.1018				
22	CONCRETE	210+76.78	- 45 . 00	246427.3135	723365.4301				
23	CONCRETE	213+15.65	- 45 . 00	246580.8395	723195.4884				
24	CONCRETE	210+76.78	40.00	246484.0820	723428.6941				
25	CONCRETE	213+15.65	40.00	246649.5255	723246.5605				

ADDENDA / REVISIONS



6-R

234-11.00-52.00 ELEANOR JOAN BAKER D 4611 105

HSIP SC, SR24 AT ANGOLA ROAD

ONTRACT	BRIDGE NO.	N/A	
0240002		14// \	l
02400902	DECICNED BY:	W. NALIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PLAN

12-SEP-2023 10:47 \\DOTFS08\ca

SHEET NO.

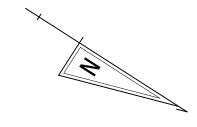
CP-04

DRAINAGE INLET SCHEDULE									
NO.	STATION	OFFSET	BOX SIZE	GRATE	T.G. EL.	INV. EL.			
15	219+68.59	*	48" x 30"	1	**	12.24			
16	220+68.81	*	48" x 30"	1	**	12.50			
17	222+45.55	*	48" x 48"	1	**	8.06			
18	222+99.63	*	34" x 24"	1	**	8.20			
19	223+28.15	*	34" x 24"	1	**	8.27			
63+	221+14.15	55.13	48" x 48"	-	12.50	8.30			

DRAINAGE PIPE SCHEDULE							
NO.	SIZE / TYPE	CLASS	LENGTH	SLOPE	INVERT EL.	DIS. EL.	
16	15" RCP	IV	104.00	0.0025	12.50	12.24	
17	18" RCP	IV	64.00	0.0023	8.02	7.87	
18	12" RCP	IV	48.00	0.0033	8.18	8.02	
19	12" RCP	IV	24.00	0.0033	8.26	8.18	
20	24" RCP	IV	96.00	0.0052	8.30	7.80	
		•					

	RIPRAP SCHEDULE							
NO.	TYPE	AREA (SY)						
10	R - 4	25.00						
11	R - 4	8.00						
12	R - 4	67.00						
15	R - 4	7.00						
16	R - 4	10.00						

UNDERDRAIN OUTLETS							
NO.	LENGTH	DIS. EL.					
6	4.00	12.80					
7	4.00	10.40					
8	4.00	9.16					
9	4.00	7.68					

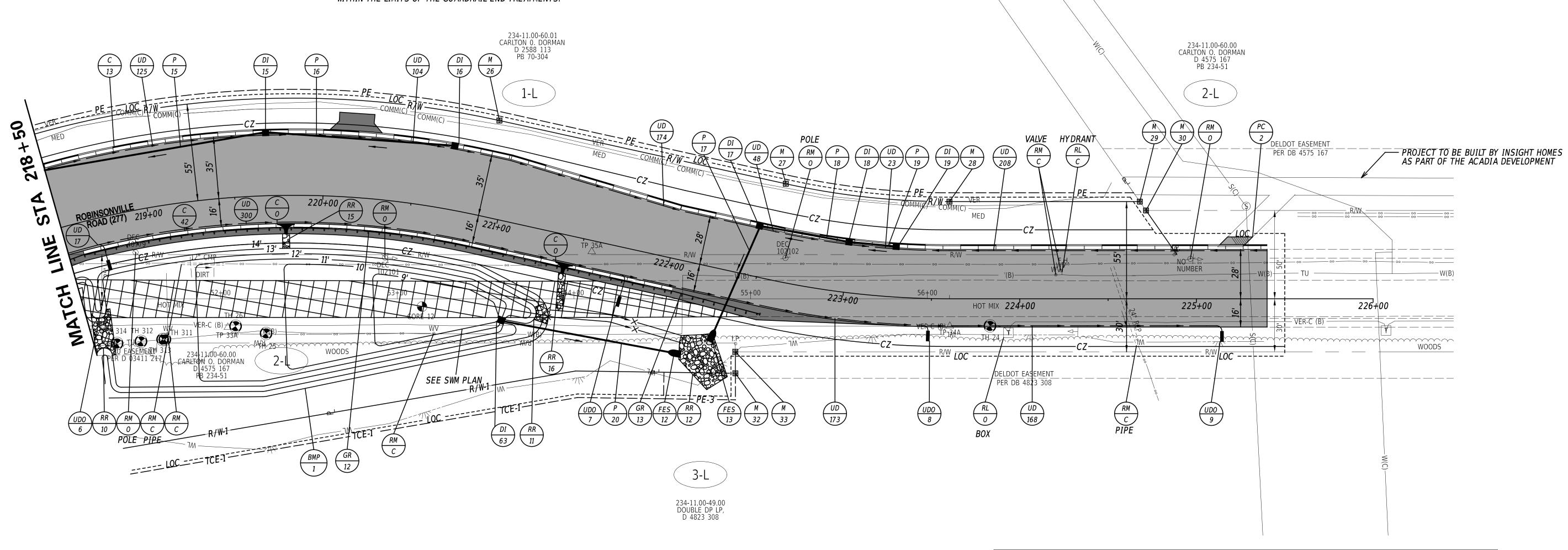


* MATCH CURB FLOWLINE OFFSET ** MATCH CURB FLOWLINE ELEVATION + POND OUTLET STRUCTURE. SEE SWM PLAN FOR OUTLET DETAILS

FLARED END SECTION SCHEDULE						
NO.	SIZE / TYPE	SLOPE	SAFETY GRATE			
12	24" RCP	0.0052	NO			
13	18" RCP	0.0023	NO			

	CURB SCHEDULE	
NO.	ITEM DESCRIPTION / TYPE	LENGTH
13	I.P.C.C. CURB AND GUTTER, TYPE 1-4	703
42	*I.P.C.C. CURB AND GUTTER, TYPE 1-4	345

SEE STANDARD CONSTRUCTION DETAILS FOR DEPRESSED CURB REQUIREMENTS WITHIN THE LIMITS OF THE GUARDRAIL END TREATMENTS.



	RIGHT-OF-WAY MONUMENT SCHEDULE						
NO.	TYPE	STATION	OFFSET	NORTH I NG	EASTING		
26	CONCRETE	220+88.86	- 55 . 00	247113.5392	722616.0840		
27	CONCRETE	222+54.86	- 55 . 00	247265.8837	722549.3988		
28	CONCRETE	223+60.21	- 55 . 00	247349.3684	722507.9284		
29	CAPPED REBAR	224+67.96	- 55 . 00	247469.7708	722496.1282		
30	CAPPED REBAR	224+71.46	-50.00	247472.7162	722494.2418		
32	CAPPED REBAR	222+50.12	55.91	247280.4213	722602.6539		
33	CAPPED REBAR	222+47 . 47	44.02	247277.9302	722603.5701		

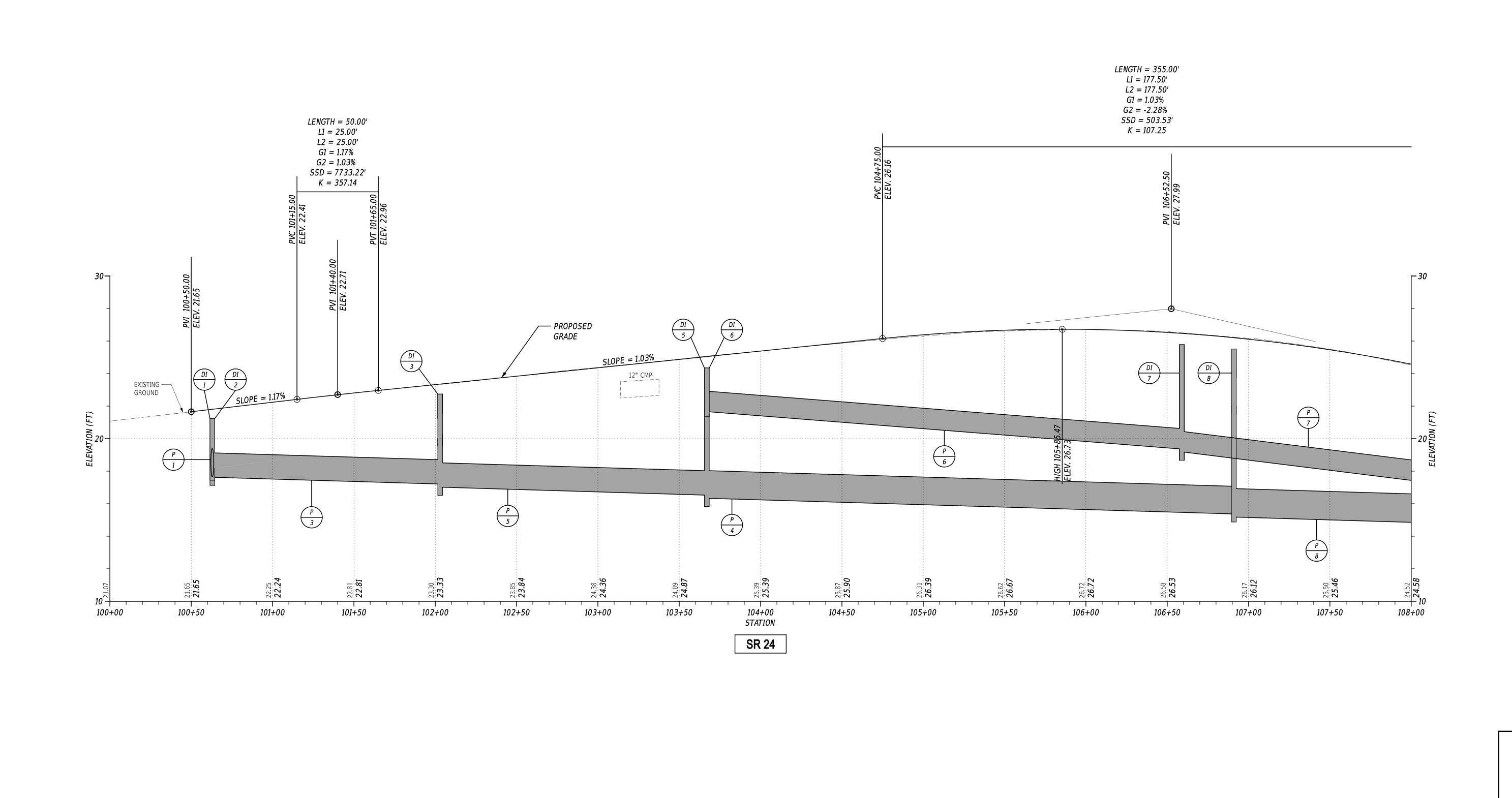
NO.	UTILITY	STATION	OFFSET	GROUND EL.	COVER	O.D. & MATERIA
24	VER-C	223+83.12	15.35	10.51	2.41	2" CABLE
25	TU-W	52+25.79	19.60	14.84	3.71	12" PLASTIC
26	VER-C	52+08.51	15.48	15.29	2.66	2" CABLE
311	TU-W	51+68.51	22.98	15.39	4.14	16" PLASTIC
312	TU-W	51+54.97	24.13	15.51	4.33	16" PLASTIC
313	TU-W	51+67.22	23.05	15.43	3.86	12" PLASTIC
314	TU-W	51+41.42	33.85	15.43	6.28	16" PLASTIC

	GUARDRAIL SCH	IEDULE		
NO.	ITEM DESCRIPTION / TYPE	BEGIN STA.	OFFSET	LENGTH
12	GALVANIZED STEEL BEAM, TYPE 1-31	218+67.37	25.00	337.50
13	GUARDRAIL END TREATMENT, TYPE 1-31	222+04.87	20.00	50.00

	DELDOT SWM FACILIT	Y SCHEDULE
NO.	TYPE / DESCRIPTION	LOCAT I ON
1	EXTENDED DURATION DRY POND (#1050)	STA. 218+00 RT. TO STA. 221+50 RT.

		ROADWAY C	ORE SCHEDULE
NO.	STATION	OFFSET	DESCRIPTION
12	53+14.09	4.40	4.5" HMA / 1" ST

CP-05 ADDENDA / REVISIONS CONTRACT N/A BRIDGE NO. T202400902 HSIP SC, SR24 AT ANGOLA ROAD **CONSTRUCTION PLAN** DESIGNED BY: W. NAUMAN SHEET NO. COUNTY CHECKED BY: J. GAINES SUSSEX



NOTE: THE BORING DATA PROVIDED ON THE PROFILE SHEETS INDICATES THE SOIL CONDITION ONLY AT THE SPECIFIC LOCATION EACH BORING WAS PERFORMED AND ONLY TO THE DEPTH PENETRATED.

ADDENDA / REVISIO

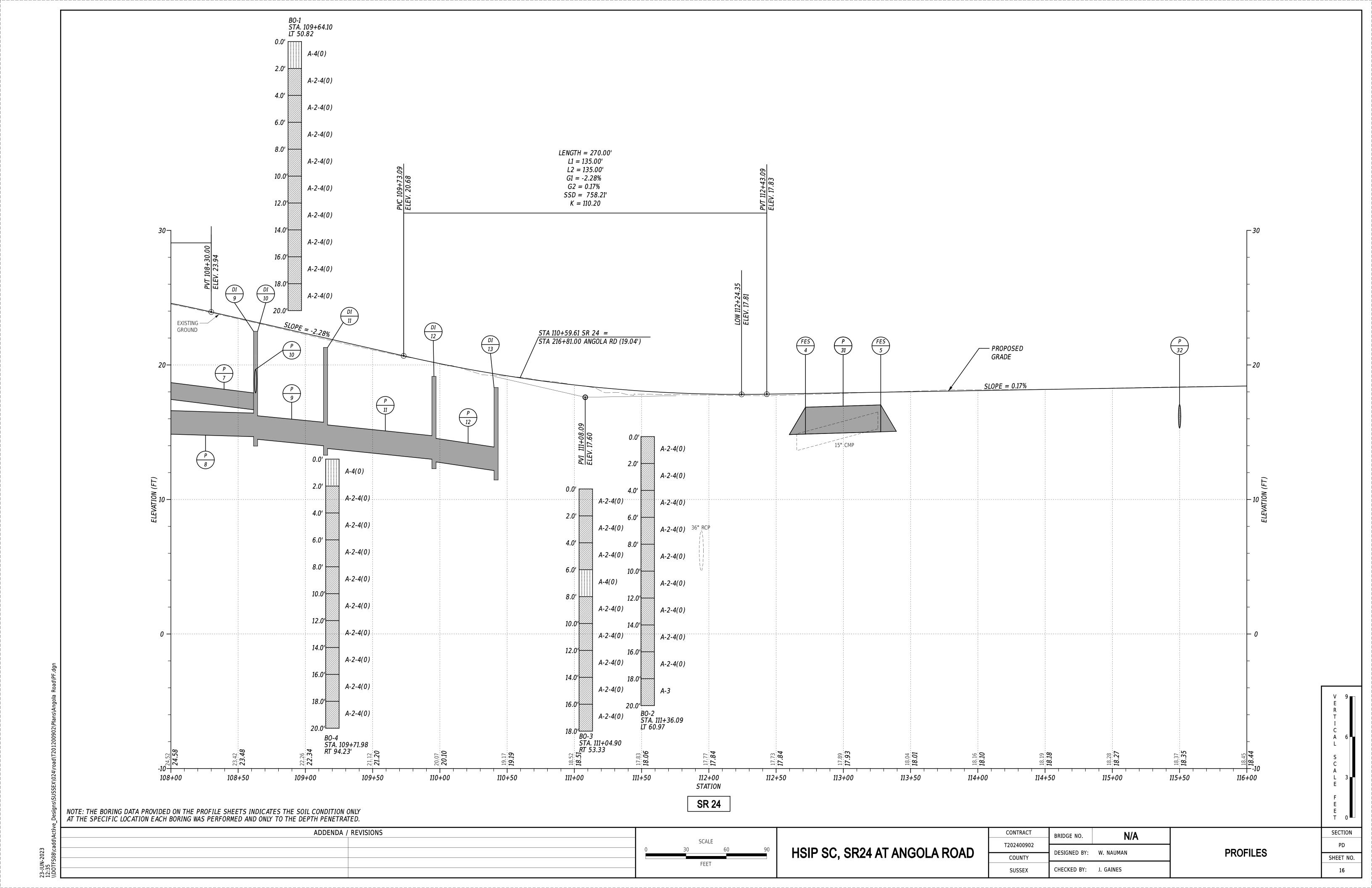
ADDENDA / REVISIONS				
		SCALE		
	0	30	60	9
	L	FEET		

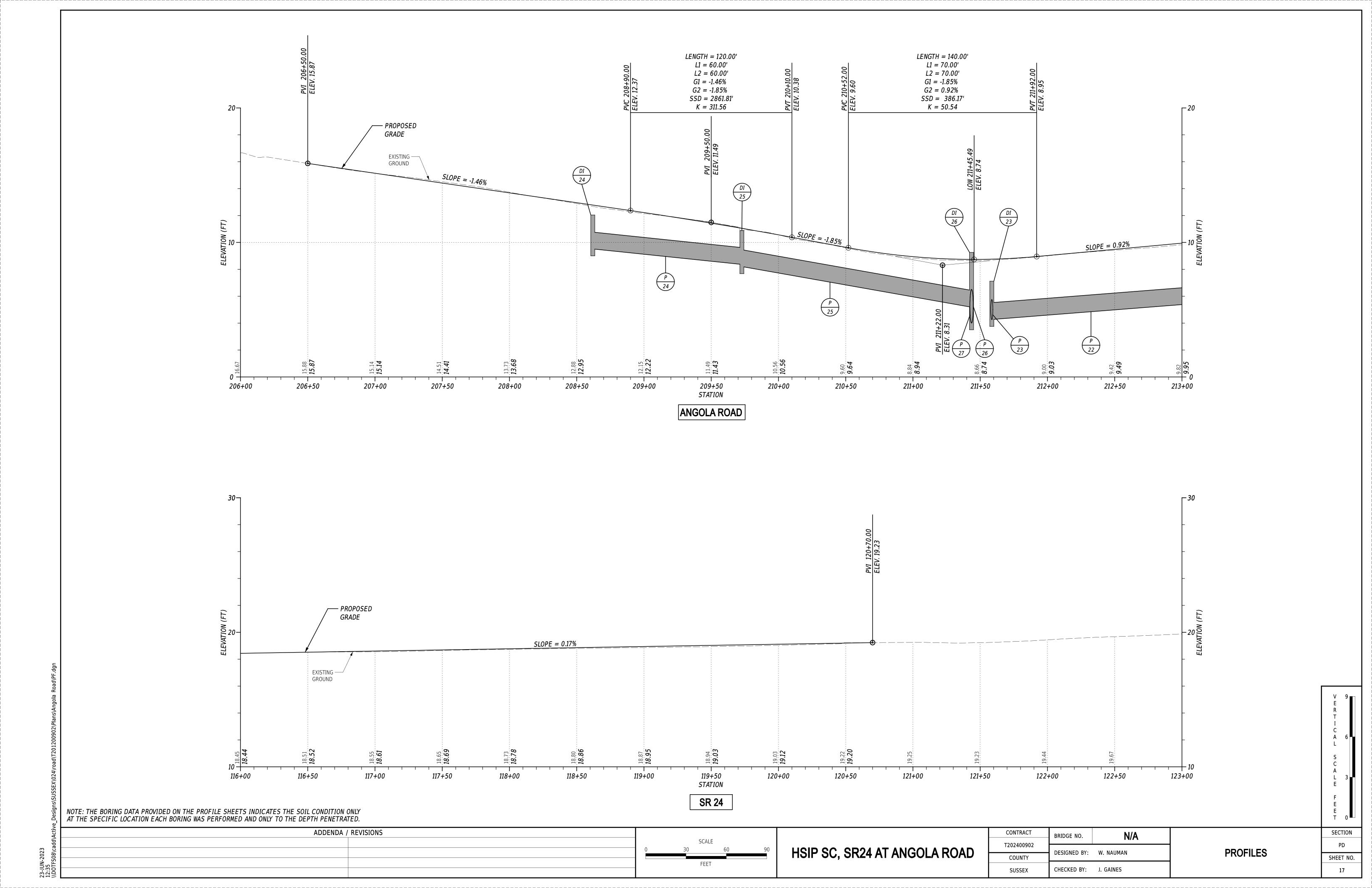
HSIP SC, SR24 AT ANGOLA ROAD

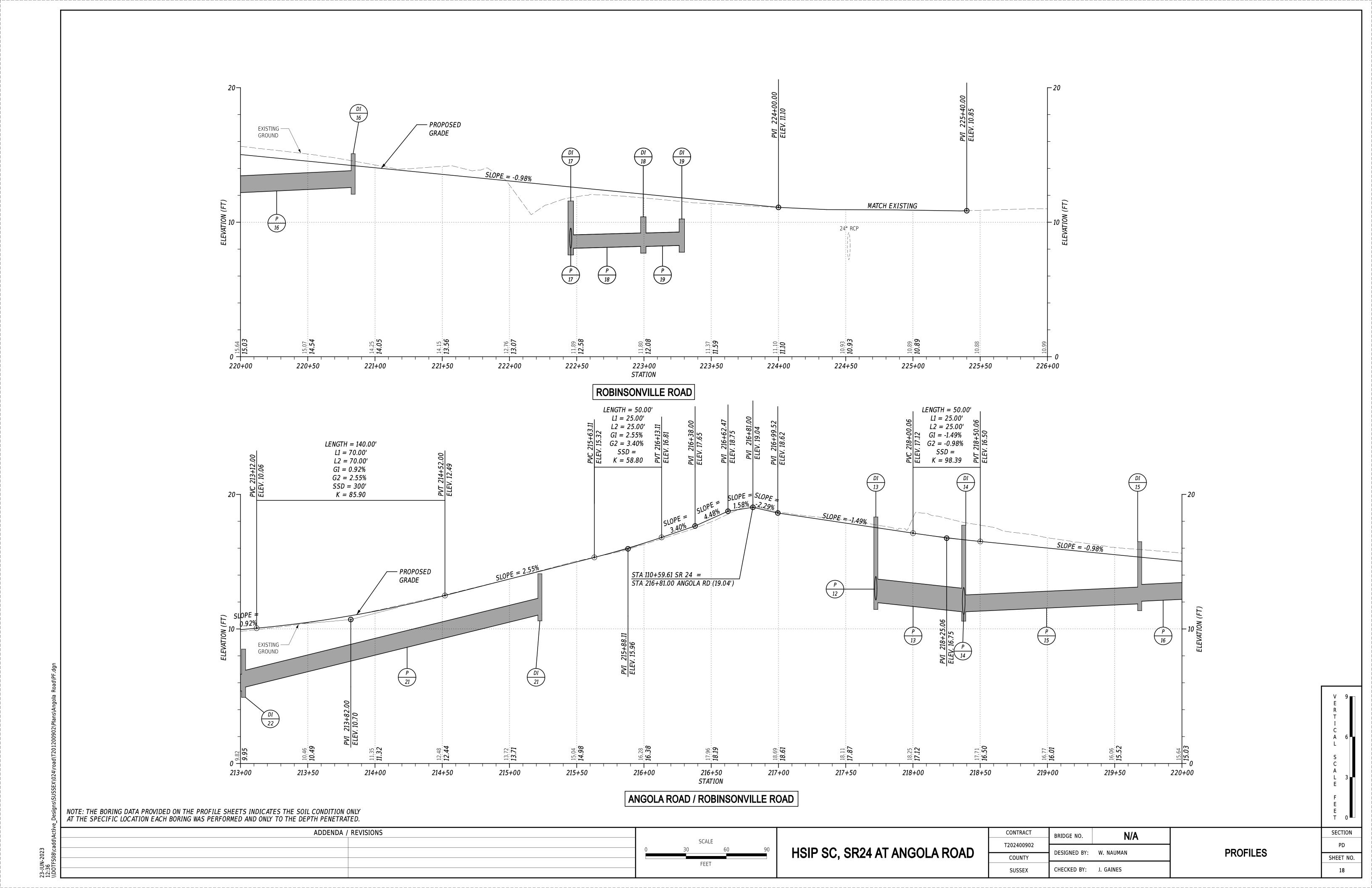
CONTRACT	BRIDGE NO.	N/A	
Γ202400902	DECICNED BY	147.1	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

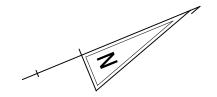
PROFILES

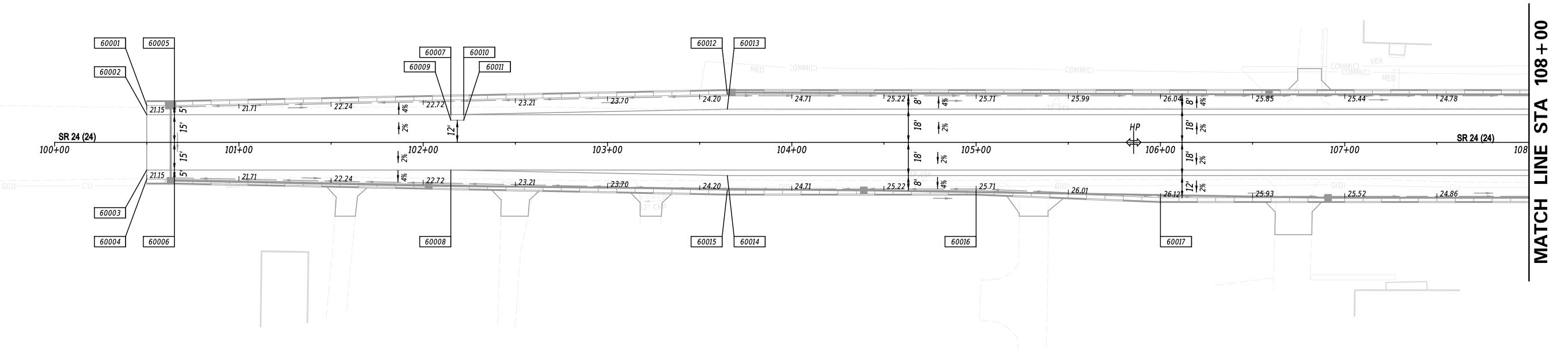
F E E T O SECTION PD SHEET NO.







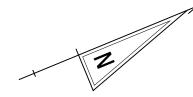




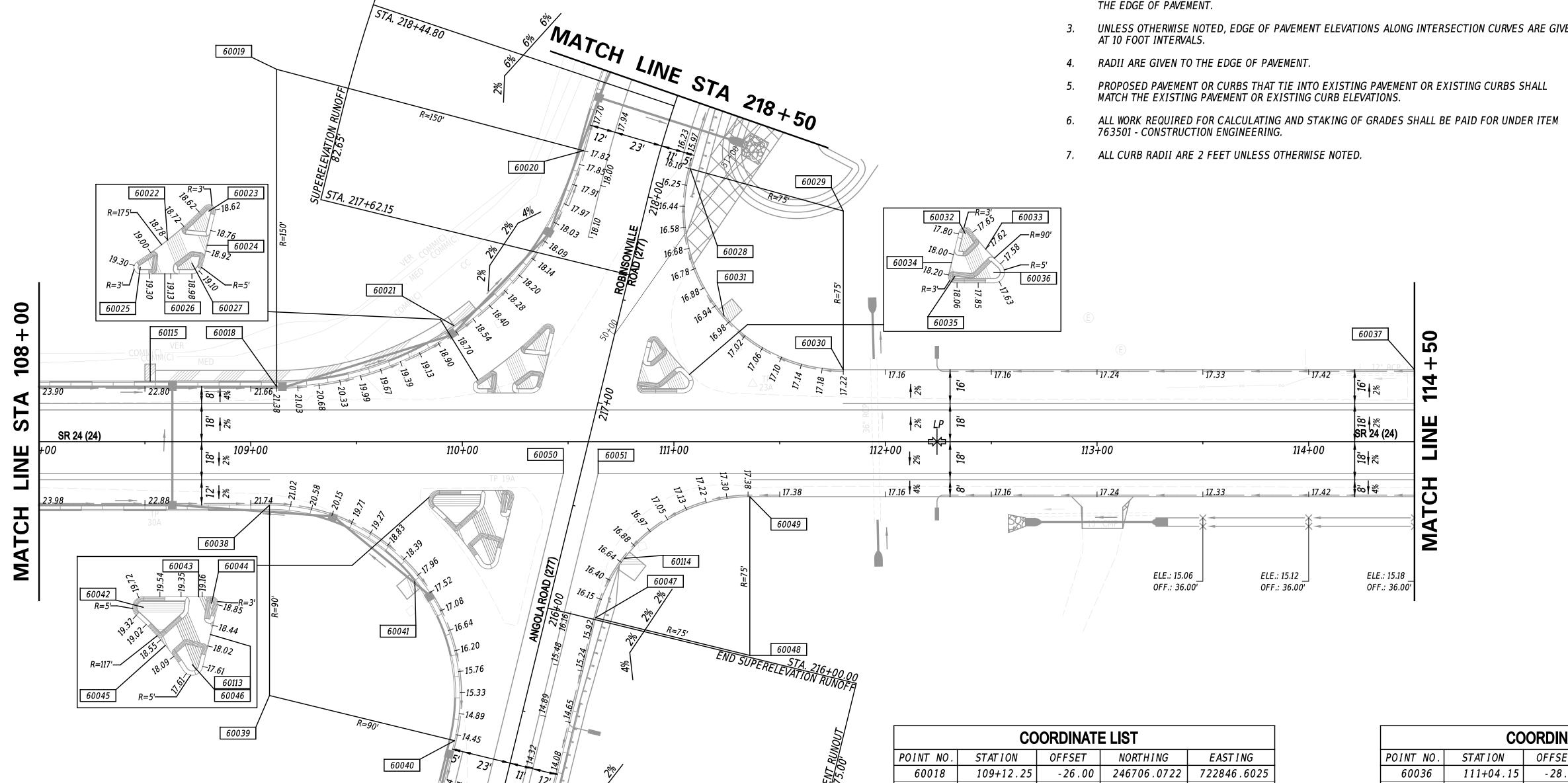
	COORDINATE LIST						
POINT NO.	STATION	OFFSET	NORTHING	EAST I NG			
60001	100+50.00	-20.00	245906.5273	722523.7368			
60002	100+50.00	- 15.00	245904.6229	722528.3600			
60003	100+50.00	15.00	245893.1966	722556.0987			
60004	100+50.00	20.00	245891.2922	722560.7218			
60005	100+65.00	-20.00	245920.3967	722529.4500			
60006	100+65.00	20.00	245905.1615	722566.4350			
60007	102+15.00	- 15.00	246057.1861	722591.2050			
60008	102+15.00	15.00	246045.7597	722618.9437			
60009	102+15.00	-12.00	246056.0434	722593.9788			
60010	102+22.00	- 15 . 00	246063.6584	722593.8711			
60011	102+22.00	-12.00	246062.5158	722596.6450			
60012	103+65.00	-26.00	246200.0695	722638.1659			
60013	103+65.00	- 18 . 00	246197.0224	722645.5629			
60014	103+65.00	18.00	246183.3108	722678.8494			
60015	103+65.00	26.00	246180.2638	722686.2464			
60016	105+00.00	26.00	246305.0881	722737.6650			
60017	106+00.00	30.00	246396.0271	722779.4514			

- 1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
- 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN AT THE EDGE OF PAVEMENT.
- 3. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN AT 10 FOOT INTERVALS.
- 4. RADII ARE GIVEN TO THE EDGE OF PAVEMENT.
- 5. PROPOSED PAVEMENT OR CURBS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR EXISTING CURB ELEVATIONS.
- 6. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 CONSTRUCTION ENGINEERING.
- 7. ALL CURB RADII ARE 2 FEET UNLESS OTHERWISE NOTED.

						GG-01	
ADDENDA / REVISIONS			CONTRACT	BRIDGE NO. N/A		SECTION	
	SCALE 0 30 60 90			T202400902		GRADES AND	PD
		HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	COUNTY DESIGNED BY: W. NAUMAN	GEOMETRICS	SHEET NO.	
			SUSSEX	CHECKED BY: J. GAINES		19	



- 1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
- 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN AT THE EDGE OF PAVEMENT.
- UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN
- PROPOSED PAVEMENT OR CURBS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL



COORDINATE LIST						
POINT NO.	STATION	OFFSET	NORTH I NG	EASTING		
60018	109+12.25	- 26 . 00	246706.0722	722846.6025		
60019	109+12.25	-176.00	246763.2040	722707.9088		
60020	218+13.32	- 35 . 00	246882.5954	722798.7146		
60021	109+96.04	-54.81	246773.6427	722902.5562		
60022	217+09.62	- 46 . 73	246811.5228	722876.1060		
60023	217+27.57	-31.00	246834.8114	722870.8700		
60024	217+11.66	-28.00	246827.8608	722885.4972		
60025	216+94.05	- 56 . 22	246794.6819	722883.1033		
60026	216+93.88	-44.24	246804.2686	722890.2969		
60027	217+01.77	-33.00	246817.9945	722890.5434		
60028	111+07.75	- 128 . 97	246926.0571	722825.8559		
60029	218+18.19	91.00	246985.2941	722871.8557		
60030	111+80.05	-34.00	246956.7282	722941.2026		
60031	217+53.97	48.19	246914.3535	722896.1957		
60032	217+33.75	19.00	246878.8527	722895.3342		
60033	217+28.76	30.14	246884.9193	722905.9276		
60034	110+84.03	- 32 . 60	246867.4166	722905.9290		
60035	110+85.51	- 26 . 00	246866.2711	722912.5929		

COORDINATE LIST						
POINT NO.	STATION	OFFSET	NORTH I NG	EASTING		
60036	111+04.15	- 28 . 00	246884.2688	722917.8436		
60037	114+50.00	- 34 . 00	247206.3345	723044.0224		
60038	109+08.89	30.00	246681.6385	722897.1027		
60039	109+08.89	120.00	246647.3594	722980.3190		
60040	215+28.71	- 28 . 00	246720.0859	723033.3365		
60041	215+97.40	-64.07	246731.4038	722956.5820		
60042	109+89.02	28.00	246756 . 4858	722925.7713		
60043	110+15.22	23.00	246782.6127	722931.1262		
60044	110+21.37	26.00	246787.1553	722936.2419		
60045	216+22.10	- 47 . 53	246759.3242	722946.3649		
60046	216+16.22	- 33 . 00	246767.5996	722959.6722		
60047	216+00.93	23.00	246803.8456	723005.0148		
60048	111+35.86	101.00	246864.4510	723049.1962		
60049	111+35.86	26.00	246893.0169	722979.8493		
60050	110+47.72	15.00	246815.7146	722936.1096		
60051	110+64.19	15.00	246830.9421	722942.3822		
60113	216+32.13	- 28 . 00	246781.0112	722949.7627		
60114	216+31.42	29.48	246827.0375	722984.1944		
60115	108+52.50	- 28 . 67	246651.8398	722821.3786		

ADDENDA / REVISIONS

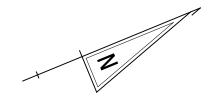
MATCH LINE STA 214+50

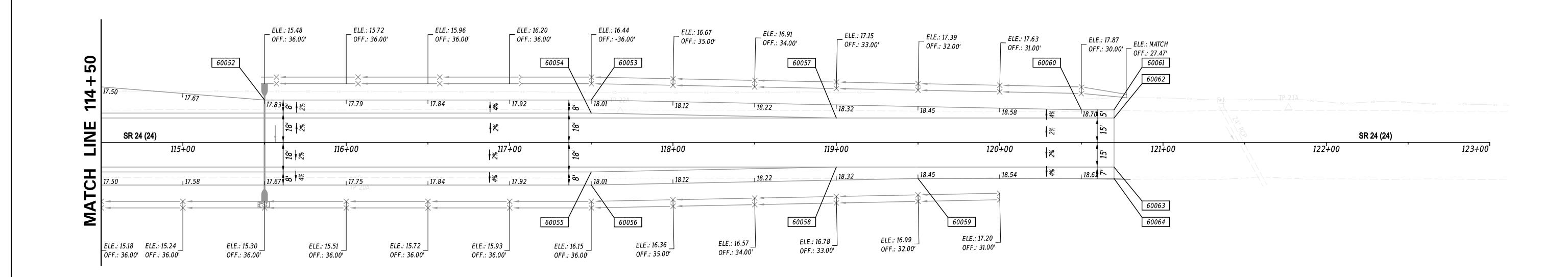
HSIP SC, SR24 AT ANGOLA ROAD

			_
CONTRACT	BRIDGE NO.	N/A	
T202400002	51115 62 1161	14// \	
T202400902	DECICNED DV.	NAV. BLALIBAABI	
COUNTY	DESIGNED BY:	W. NAUMAN	_
SUSSEX	CHECKED BY:	J. GAINES	

GRADES AND GEOMETRICS

GG-02 SECTION SHEET NO.

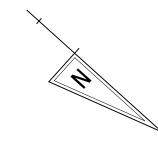


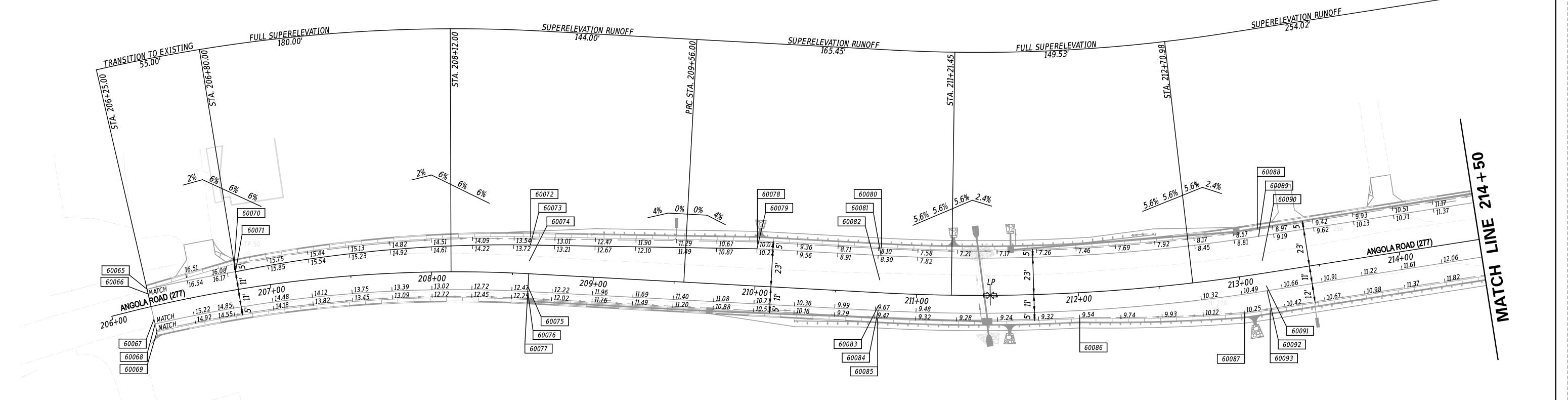


	COORDINATE LIST						
POINT NO.	STAT I ON	OFFSET	NORTH I NG	EAST I NG			
60052	115+50.00	-26.00	247295.7500	723089.5073			
60053	117+50.00	-26.00	247480.6751	723165.6830			
60054	117+50.00	- 18 . 00	247477.6280	723173.0800			
60055	117+50.00	18.00	247463.9164	723206.3665			
60056	117+50.00	26.00	247460.8694	723213.7635			
60057	119+00.00	- 15.00	247615.1791	723232.9857			
60058	119+00.01	15.00	247603.7637	723260.7290			
60059	119+50.00	22.00	247647.3180	723286.2408			
60060	120+50.00	-20.00	247755.7773	723285.4944			
60061	120+70.00	-20.00	247774.2698	723293.1120			
60062	120+70.00	- 15 . 00	247772.3654	723297.7351			
60063	120+70.00	15.00	247760.9390	723325.4739			
60064	120+70.00	22.00	247758.2729	723331.9462			

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- 3. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN AT 10 FOOT INTERVALS.
- 4. RADII ARE GIVEN TO THE EDGE OF PAVEMENT.
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- 7. ALL CURB RADII ARE 2 FEET UNLESS OTHERWISE NOTED.

						GG-03
ADDENDA / REVISIONS			CONTRACT	BRIDGE NO. N/A		SECTION
	SCALE 0 30 60 90		T202400902		GRADES AND	PD
		HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	DESIGNED BY: W. NAUMAN	GEOMETRICS	SHEET NO.
	- FEET		SUSSEX	CHECKED BY: J. GAINES		21





COORDINATE LIST					
POINT NO.	STATION	OFFSET	NORTHING	EAST I NG	
60065	206+25.00	-11.00	246136.0245	723717.2130	
60066	206+25.00	-8.00	246138.5694	723718.8015	
60067	206+25.00	8.00	246152.1423	723727.2737	
60068	206+25.00	11.00	246154.6872	723728.8622	
60069	206+25.00	16.00	246158.9287	723731.5097	
60070	206+80.00	- 16 . 00	246163.0081	723668.0262	
60071	206+80.00	-11.00	246167.0661	723670.9472	
60072	208+60.00	-22.75	246280.8282	723526.7700	
60073	208+60.00	- 17 . 75	246284.1676	723530.4914	
60074	208+60.00	-8.00	246290.6792	723537.7482	
60075	208+60.00	8.00	246301.3651	723549.6567	
60076	208+60.00	11.00	246303.3687	723551.8895	
60077	208+60.00	16.00	246306.7080	723555.6109	
60078	210+00.00	- 28 . 00	246381.5214	723429.3614	
60079	210+00.00	-23.00	246384.8608	723433.0828	

	COORDINATE LIST						
POINT NO.	STATION	OFFSET	NORTHING	EAST ING			
60080	210+76.78	-28.00	246438.6672	723378.0829			
60081	210+76.78	-23.00	246442.0065	723381.8043			
60082	210+76.78	-8.00	246452.0245	723392.968			
60083	210+76.78	8.00	246462.7103	723404.877			
60084	210+76.78	11.00	246464.7139	723407.109			
60085	210+76.78	16.00	246468.0533	723410.831.			
60086	212+00.00	16.00	246556.3646	723322.523			
60087	213+00.00	23.00	246626.2956	723248.381			
60088	213+15.65	-28.00	246594.5766	723205.502			
60089	213+15.65	-23.00	246598.6170	723208.448.			
60090	213+15.65	-8.00	246610.7381	723217.284			
60091	213+15.65	8.00	246623.6672	723226.709			
60092	213+15.65	11.00	246626.0914	723228.477			
60093	213+15.65	23.00	246635.7883	723235.546			

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ADDENDA / REVISIONS

SCALE

30 60 90
HSIP SC, SR24 AT ANGOLA ROAD

FEET

HSIP SC, SR24 AT ANGOLA ROAD

FEET

FEET

FEET

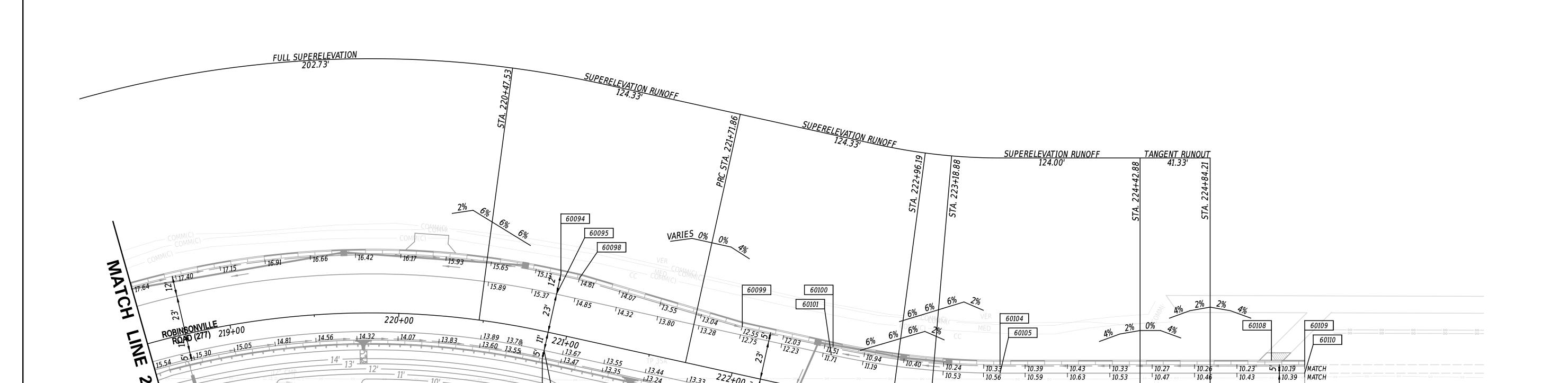
GG-04

SUSSEX
CHECKED BY: W. NAUMAN

GRADES AND
GEOMETRICS

GRADES AND
GEOMETRICS

SHEET NO.
22



60102

60103

60096

ELE.: 11.76 OFF.: 42.08'

COORDINATE LIST						
POINT NO.	STATION	OFFSET	NORTH I NG	EASTING		
60094	220+88.86	- 35 . 00	247116.9911	722625.4694		
60095	220+88.86	-23.00	247121.1332	722636.7318		
60096	220+88.86	11.00	247132.8694	722668.6420		
60097	220+88.86	16.00	247134.5953	722673.3347		
60098	221+00.00	- 35 . 00	247127.4431	722621.6252		
60099	222+00.00	- 28 . 00	247223.7130	722593.6768		
60100	222+54.86	-28.00	247275.2039	722574.7391		
60101	222+54.86	-23.00	247276.9298	722579.4318		
60102	222+54.86	11.00	247288.6660	722611.3420		
60103	222+54.86	16.00	247290.3919	722616.0347		
60104	223+60.21	- 28 . 00	247363.9305	722530.6648		
60105	223+60.21	- 23 . 00	247366.6271	722534.8753		
60106	223+60.21	11.00	247384.9644	722563.5065		
60107	223+60.21	16.00	247387.6611	722567.7169		
60108	225+20.37	- 30 . 67	247497.3612	722442.0408		
60109	225+40.00	- 28 . 00	247515.3301	722433.6985		
60110	225+40.00	-23.00	247518.0268	722437.9090		
60111	225+40.00	11.00	247536.3640	722466.5402		
60112	225+40.00	16.00	247539.0607	722470.7507		

218+50

NOTES:

224+00 | 11.33 | 11.13

60107

- 1. OFFSETS SHOWN IN THE GEOMETRY TABLES WITH A MINUS SIGN ARE TO THE LEFT OF THE CONSTRUCTION BASELINE.
- 2. UNLESS OTHERWISE NOTED, POINT GEOMETRY ADJACENT TO CURB AND CURB AND GUTTER IS GIVEN AT THE EDGE OF PAVEMENT.

60112

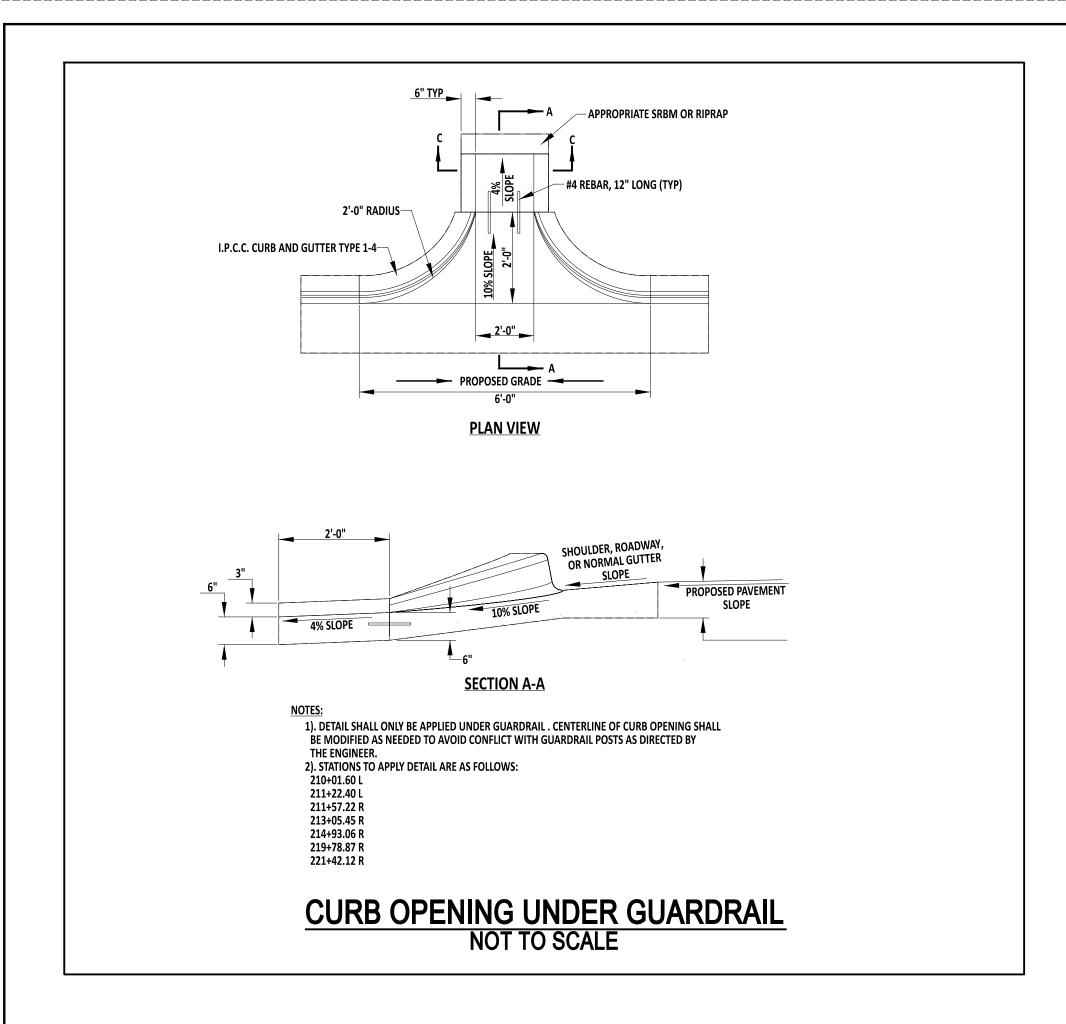
226+00

- 3. UNLESS OTHERWISE NOTED, EDGE OF PAVEMENT ELEVATIONS ALONG INTERSECTION CURVES ARE GIVEN AT 10 FOOT INTERVALS.
- 4. RADII ARE GIVEN TO THE EDGE OF PAVEMENT.

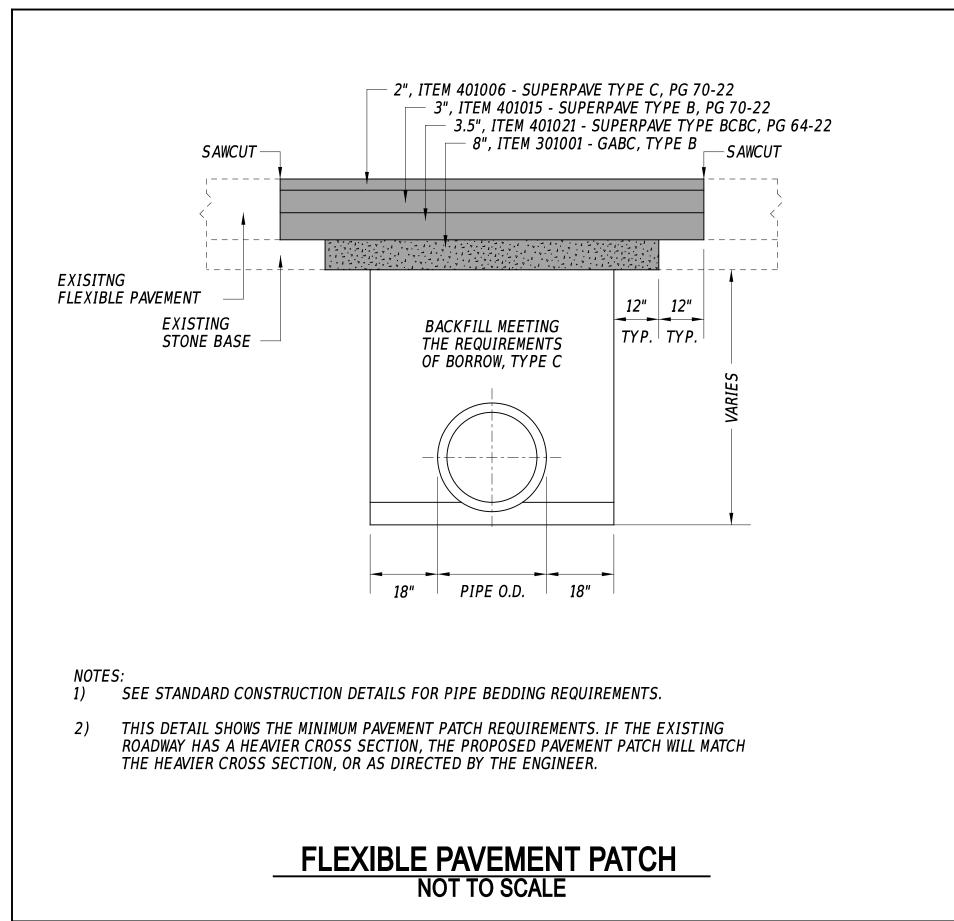
- 5. PROPOSED PAVEMENT OR CURBS THAT TIE INTO EXISTING PAVEMENT OR EXISTING CURBS SHALL MATCH THE EXISTING PAVEMENT OR EXISTING CURB ELEVATIONS.
- 6. ALL WORK REQUIRED FOR CALCULATING AND STAKING OF GRADES SHALL BE PAID FOR UNDER ITEM 763501 CONSTRUCTION ENGINEERING.
- 7. ALL CURB RADII ARE 2 FEET UNLESS OTHERWISE NOTED.

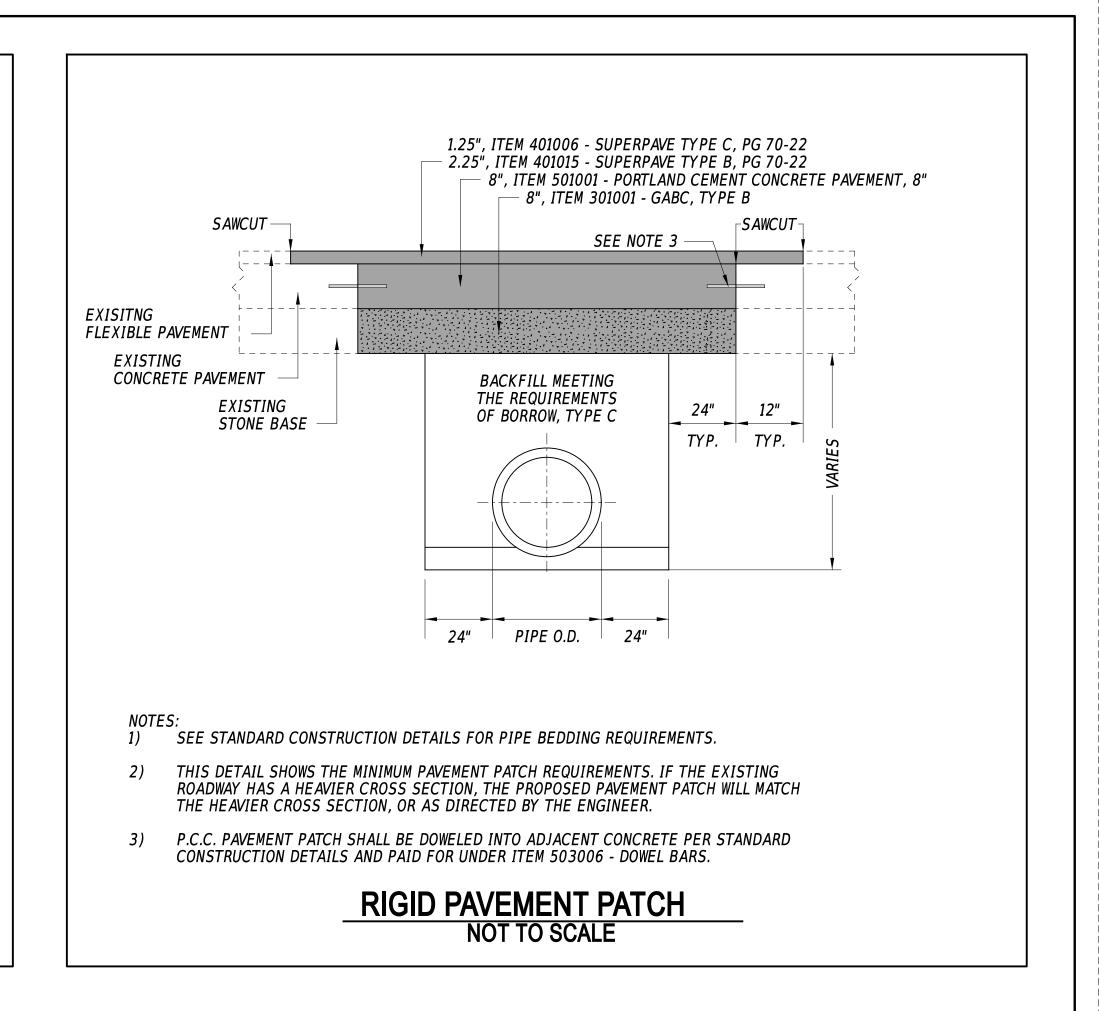
						GG-05		
ADDENDA / REVISIONS			CONTRACT	BRIDGE NO. N/A		SECTION		
	SCALE 0 30 60 90	SCALE 0 30 60 90	SCALE O 30 60 90 HSIP SC, SR24 A		T202400902	1 117 1	GRADES AND	PD
				HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	OUNTY DESIGNED BY: W. NAUMAN	GEOMETRICS	SHEET NO.
	FEET -		SUSSEX	CHECKED BY: J. GAINES		23		

12:21 \\DOTFS08\cadd\Active_Designs\SUSSEX\024\road\T201200902\Plans\Angola Road\GG 04.dgn



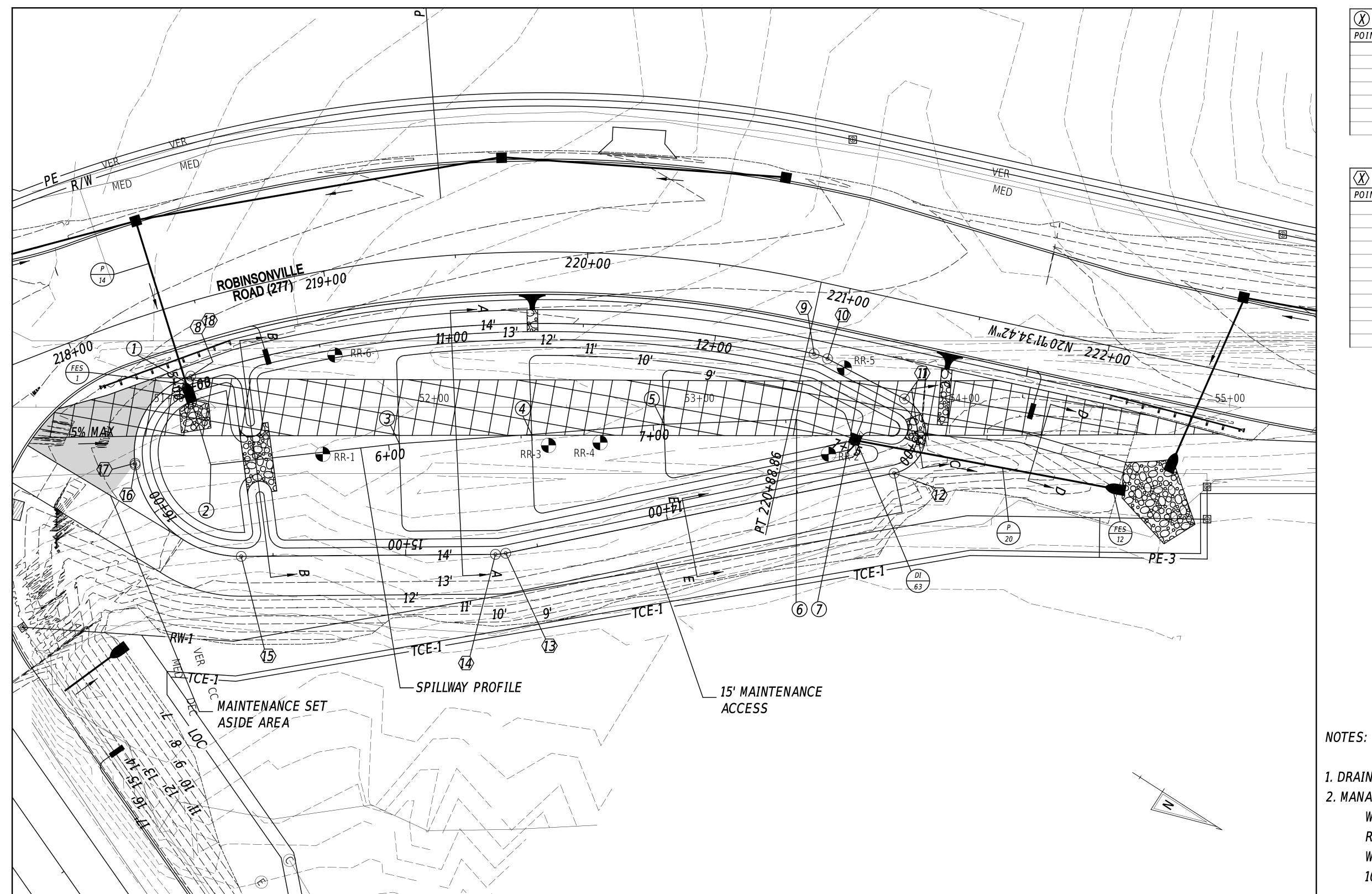
ADDENDA / REVISIONS





SUSSEX

CHECKED BY: J. GAINES



X	POND SPILLWAY BASELINE											
POINT NO.	POINT NO. STATION OFFSET NORTHING EASTING											
1	5+00.00	0.00	246947.6768	722819.2810								
2	5+32.51	0.00	246972.3712	722840.4203								
3	6+04.04	0.00	247027.9467	722795.3760								
4	6+54.08	0.00	247068.1091	722765.5415								
5	7+04.12	0.00	247108.0500	722735.3860								
6	7+54.12	0.00	247149.1889	722706.9679								
7	7+75.46	0.00	247169.8815	722701.7452								

X	X POND EMBANKMENT BASELINE											
POINT NO.	STATION	OFFSET	NORTH I NG	EAST ING								
8	10+00.00	0.00	246947.9827	722816.3396								
9	12+37 .81	0.00	247141.3568	722682.5397								
10	12+43.21	0.00	247146.6126	722681.3801								
1 1	12+75.93	0.00	247179.2044	722678.4829								
12	13+12.79	0.00	247191.0051	722704.1629								
13	14+62.28	0.00	247083.9848	722808.5289								
14	14+66.18	0.00	247080.9438	722810.9643								
15	15+62.00	0.00	247000.6741	722863.2947								
16	16+19.60	0.00	246948.4531	722855.8114								
17	16+20.25	0.00	246948.0317	722855.3196								
18	16+62.68	0.00	246947.9827	722816.3396								

- 1. DRAINAGE AREA TO FACILITY: 5.12 AC, CN: 72
- 2. MANAGEMENT PROVIDED BY FACILITY: WATER QUALITY BY 48-HR EXTENDED DETENTION OF RUNOFF FROM 1-YEAR (RPv) STORM WATER QUANTITY BY ATTENUATION OF RUNOFF FROM 10-YEAR (Cv) AND 100-YEAR (Fv) STORMS

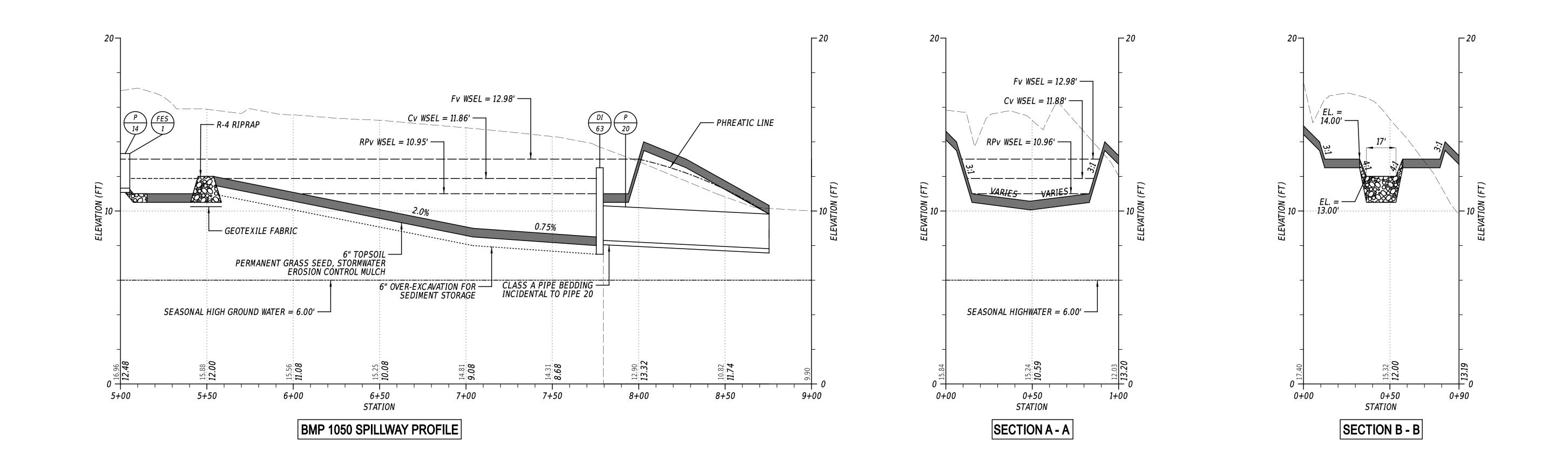
STORMWATER MANAGEMENT PLAN

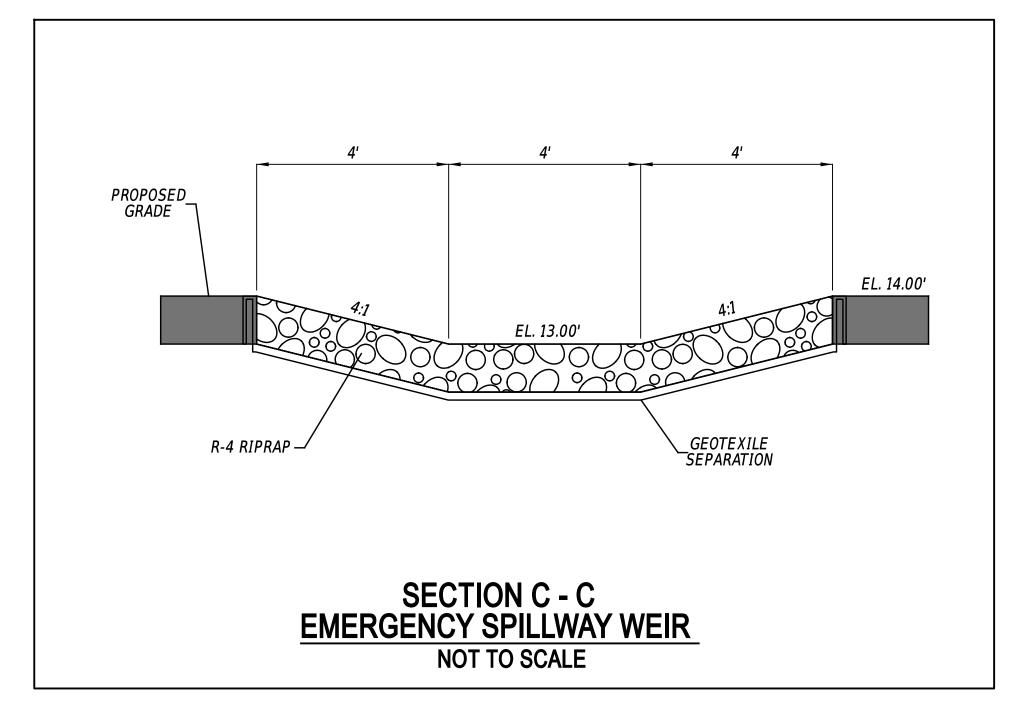
SHEET NO.

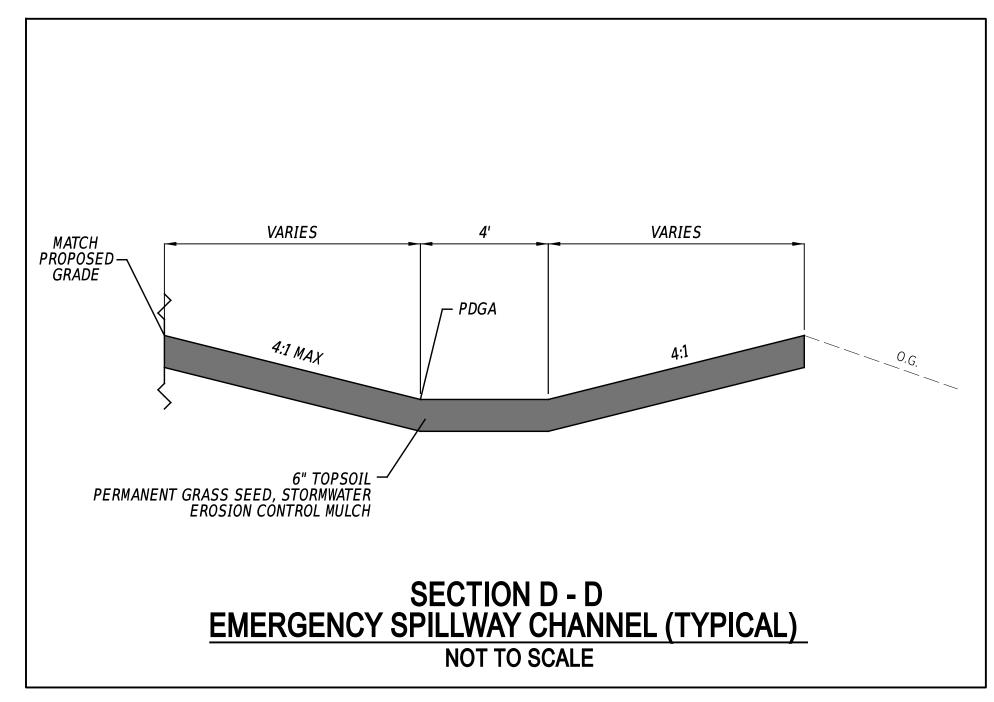
EXTEND DURATION DRY POND BMP #1050

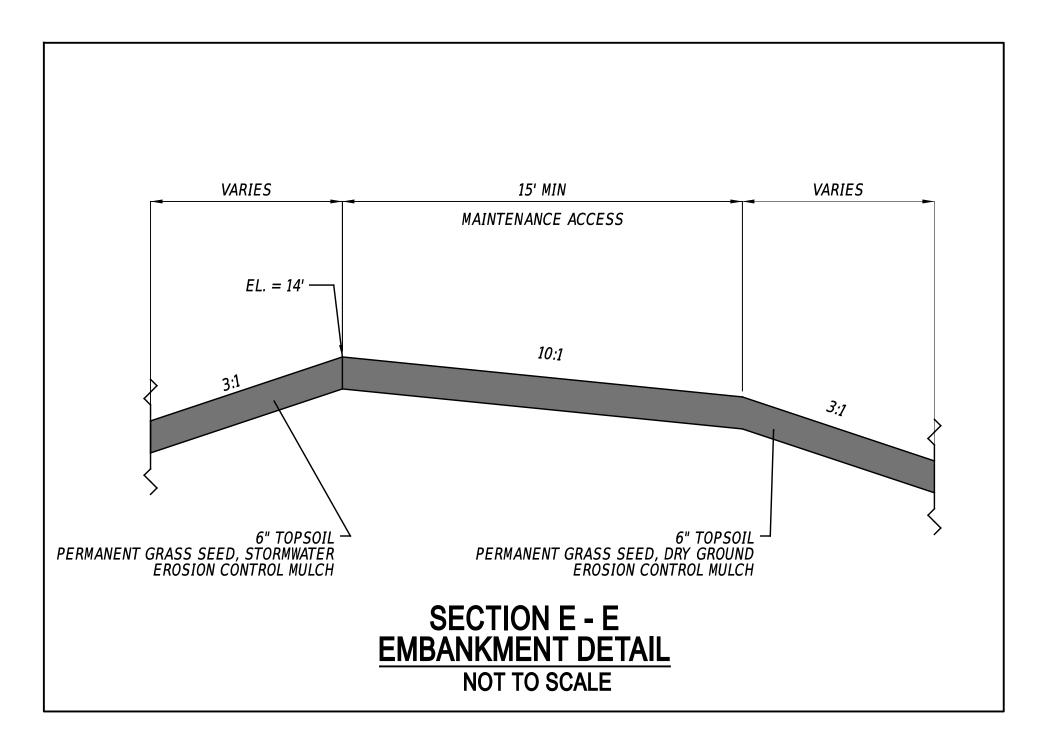
11-SEP-2023 15:05 \\DOTFS08\ca

ADDENDA / REVISIONS CONTRACT N/A BRIDGE NO. T202400902 HSIP SC, SR24 AT ANGOLA ROAD DESIGNED BY: W. NAUMAN COUNTY CHECKED BY: J. GAINES SUSSEX

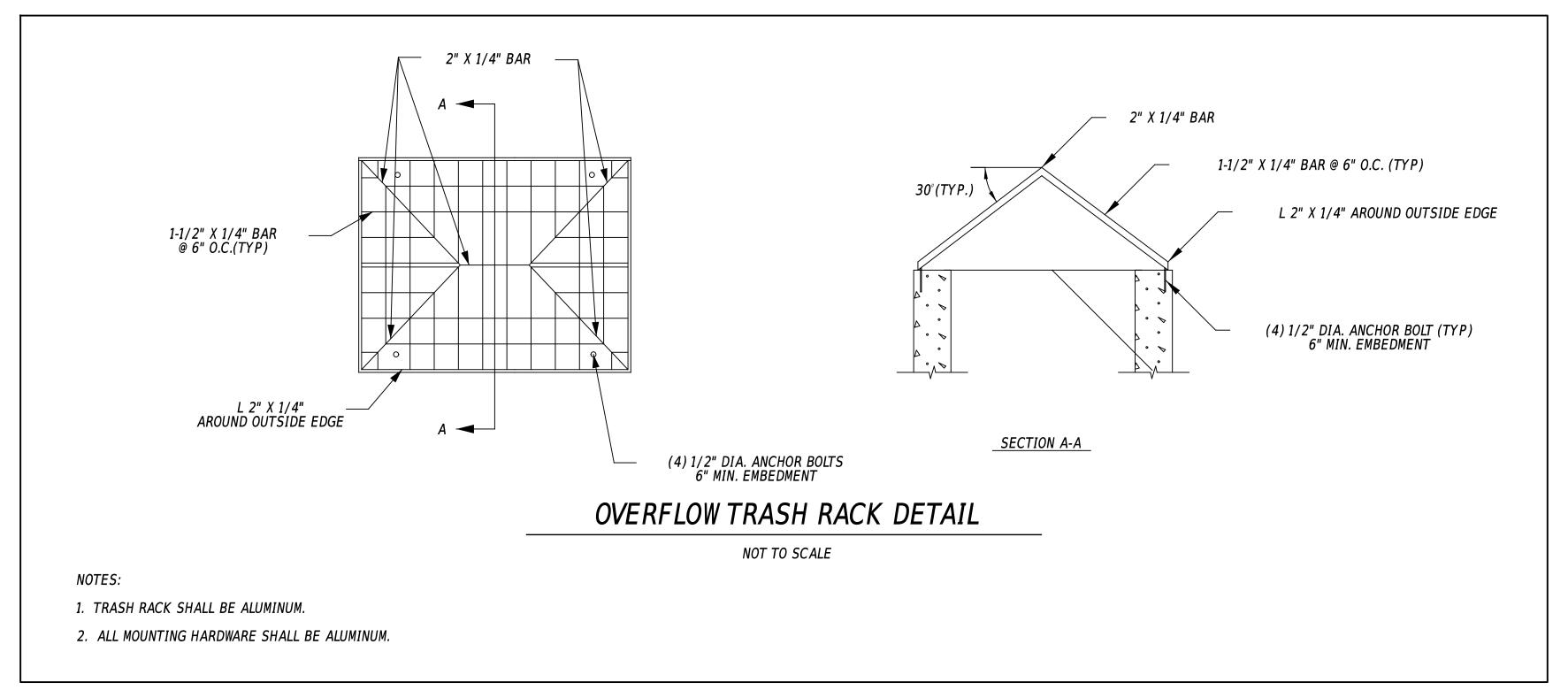




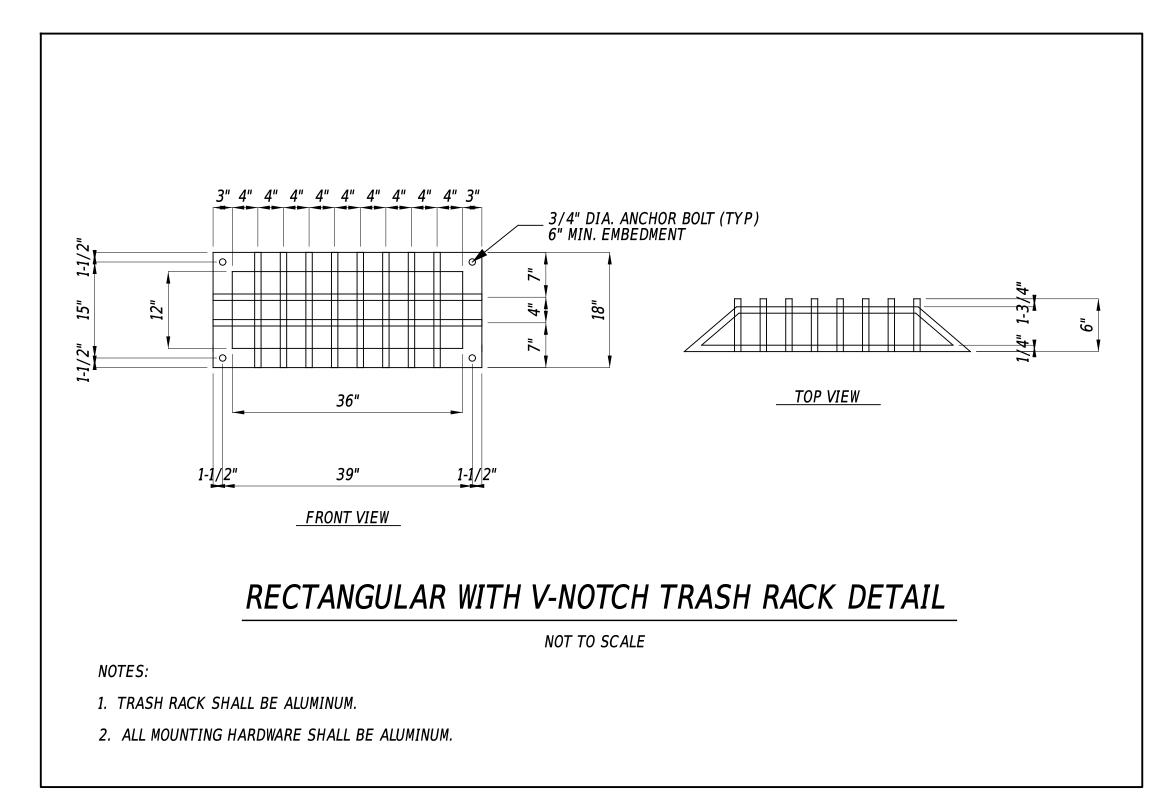


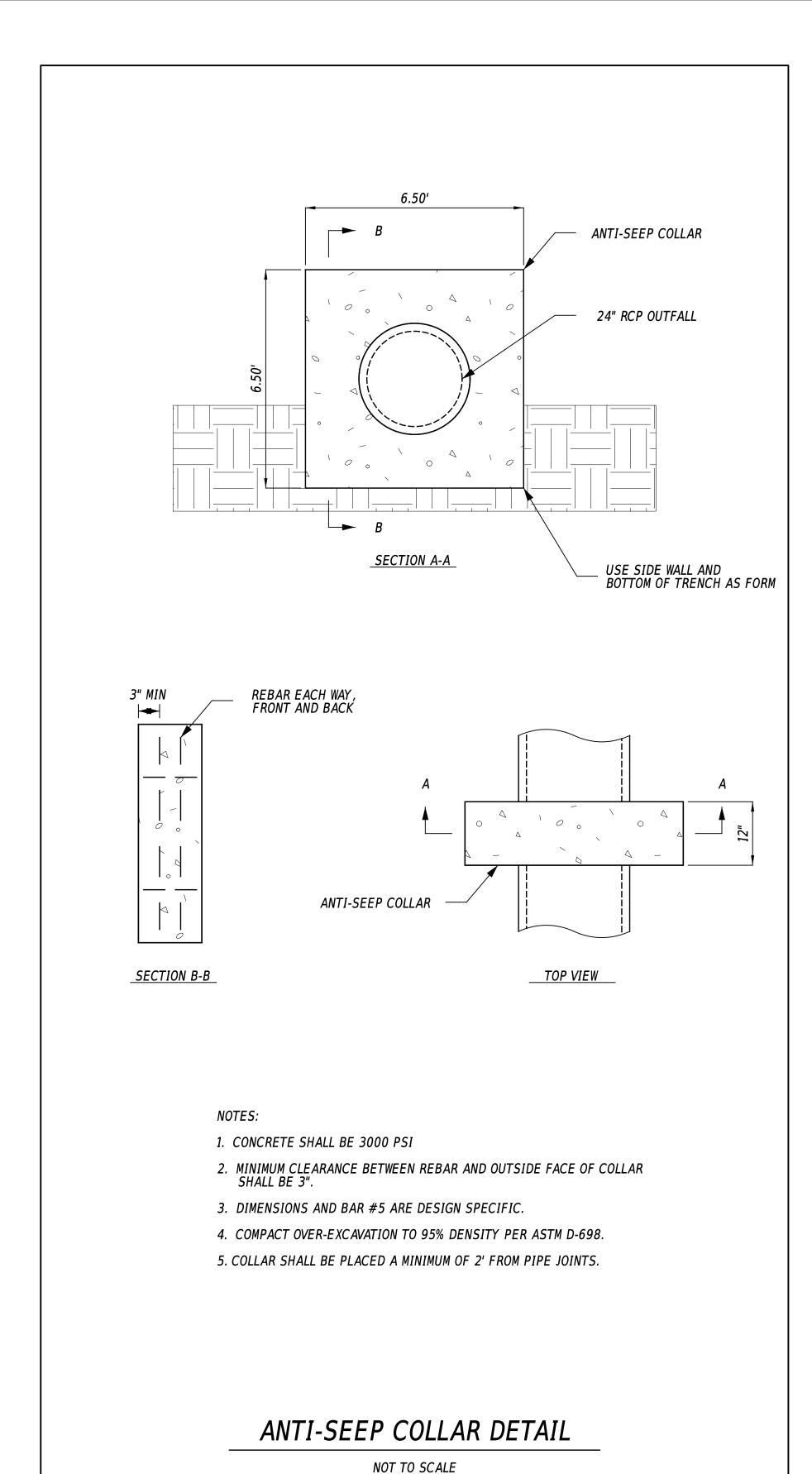


ADDENDA /	REVISIONS			CONTRACT	NO. N/A		SECTION
				T202400902	IN/A	STORMWATER	PD
		NOT TO SCALE	HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	ED BY: W. NAUMAN	MANAGEMENT PLAN	SHEET NO.
				SUSSEX CHECK			26



ADDENDA / REVISIONS





11-SEP 15:07 \\DOTE

DRY POND SEQUENCE OF CONSTRUCTION

BEFORE ANY CONSTRUCTION BEGINS ON THE DRY POND, CONTACT THE DESIGNATED CCR A MINIMUM OF 2 WORKING DAYS IN ADVANCE SO THAT THE REQUIRED FACILITY CONSTRUCTION CHECKLIST CAN BE COMPLETED.

A. INITIAL CONSTRUCTION:

- 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE AS NEEDED.
- 2. CLEAR AND GRUB FOR INSTALLATION OF PERIMETER EROSION AND SEDIMENT
- 3. INSTALL PERIMETER CONTROLS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- 4. CLEAR AND GRUB REMAINING AREA FOR DRY POND CONSTRUCTION.
- 5. CONSTRUCT POND OUTLET AND OUTFALL AS SHOWN ON THE PLANS. DEWATER FOUNDATION AS NEEDED IN ACCORDANCE WITH DEWATERING PRACTICES AS SHOWN IN SECTION 900 OF THE STANDARD SPECIFICATIONS. INSTALL SKIMMER DEWATERING DEVICE AND/OR OTHER TEMPORARY MODIFICATIONS AS SHOWN IN THE PLANS. PLACE SKIMMER AT ELEVATION 10.50' OR AS DIRECTED BY THE ENGINEER.
- 6. COMPLETE BASIN EXCAVATION TO THE LINES AND GRADES SHOWN. OVER EXCAVATE 6" FOR SEDIMENT STORAGE AS SHOWN ON THE PLANS.
- 7. ALL DISTURBED AREAS MEETING FINAL ELEVATIONS AND GRADES SHALL BE SEEDED WITH 908015 PERMANENT GRASS SEEDING, WET GROUND AND MULCHED WITH EROSION CONTROL BLANKET MULCH. AREAS NOT MEETING FINAL ELEVATIONS AND GRADES CAN BE SEEDED WITH TEMPORARY GRASS SEEDING.

B. MAINTENANCE OF SEDIMENT BASIN:

- 1. THE CONTRACTOR SHALL INSPECT THE BASIN THE NEXT WORKDAY FOLLOWING A RAIN EVENT AND MAKE ANY REPAIRS AS NEEDED.
- 2. ANY EXCESS SEDIMENT AROUND THE OUTFALL AREA WILL BE REMOVED WITHIN TWO WORKING DAYS AND DISPOSED AT A LOCATION APPROVED BY THE ENGINEER.

C. CONVERSION TO PERMANENT DRY POND FACILITY:

- 1. CONVERT THE SEDIMENT BASIN AFTER ALL AREAS DRAINING TO IT HAVE ATTAINED FINAL STABILIZATION AND THE ENGINEER HAS APPROVED.
- 2. REMOVE ANY EXCESS SEDIMENT FROM THE POND BOTTOM ABOVE ELEVATION 8.50'.
- 3. REMOVE ANY EXCESS SEDIMENT FROM THE FOREBAY ABOVE ELEVATION 11.00'.
- 4. PLACE TOPSOIL ON POND BOTTOM TO ELEVATION 8.50' MAKING SURE TO FOLLOW
- PLAN LINES AND GRADES.
 5. COMPLETE STABILIZATION OF ALL BARE AREAS WITH 908015 PERMANENT GRASS SEEDING, STORMWATER AND EROSION CONTROL BLANKET MULCH.
- 6. WITH CONCURRENCE FROM STORMWATER ENGINEER, REMOVE THE REMAINING E&S CONTROLS.

*AS-BUILT DRAWINGS WILL BE COMPLETED BY THE CONTRACTOR AND CERTIFIED BY A DELAWARE PLS AND SENT TO THE STORMWATER ENGINEER FOR VERIFICATION A MINIMUM OF ONE WEEK BEFORE THE DELDOT INITIAL INSPECTION DATE. AS-BUILT DEVELOPMENT AND SUBMISSION IS INCIDENTAL TO THE BMP ITEM REQUIRING POST-CONSTRUCTION VERIFICATION. AS-BUILT DRAWINGS WILL INCLUDE, BUT NOT BE LIMITED TO:

- 1. GENERAL TOPOGRAPHY OF THE WHOLE FACILITY AT 1-FOOT CONTOURS INCLUDING FOREBAY AND TOP/TOE OF ANY EMBANKMENT.
- 2. INVERTS OF ALL PIPES AND SWALES THAT INFLOW TO THE POND.
- 3. OUTLINE OF ALL RIPRAP AND OBTAIN SPOT ELEVATIONS ON TOP OF RIPRAP.
- 4. OUTLET STRUCTURE INVERTS OF ANY AND ALL ORIFICES/WEIRS, TOP OF STRUTURE, AND OUTLET PIPE.
- 5. PRIMARY OUTFLOW PIPE OR CHANNEL. FOR A PIPE OUTFALL, INVERTS AT THE ENTRANCE AND EXIT. FOR A PRIMARY OUTFLOW CHANNEL / SWALE, SHOW AT MINIMUM THREE CROSS SECTIONS EQUAL DISTANCE APART AT 50' DOWNSTREAM ALONG WITH THE SLOPE.

ADDENDA / REVISIONS

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT
BRIDGE NO.

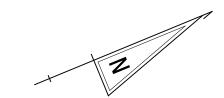
T202400902

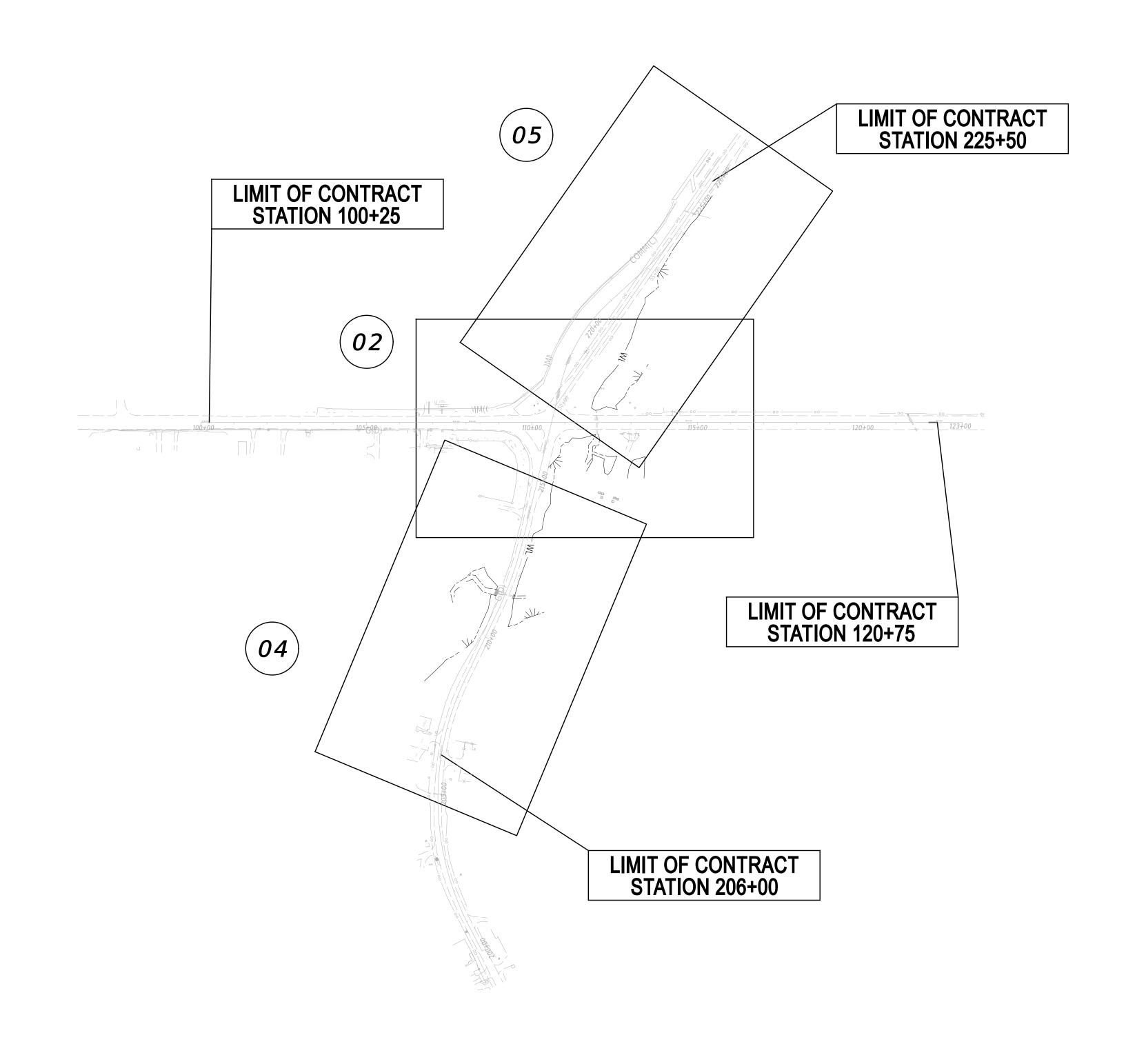
COUNTY

SUSSEX

CHECKED BY: J. GAINES

STORMWATER
MANAGEMENT PLAN





ADDENDA / REVISIONS

HSIP SC, SR24 AT ANGOLA ROAD

N/A BRIDGE NO. T202400902 DESIGNED BY: W. NAUMAN COUNTY CHECKED BY: J. GAINES SUSSEX

ENVIRONMENTAL COMPLIANCE PLAN

SHEET NO.

ENVIRONMENTAL COMPLIANCE NOTES

. GENERAL NOTES:

- A. THE PURPOSE OF THIS SHEET IS TO IDENTIFY THOSE ITEMS ASSOCIATED WITH ENVIRONMENTAL COMPLIANCE. IMPACT CALCULATIONS ARE FOR THE AGENCY PERMIT REPORTING PURPOSES ONLY AND ARE NOT TO BE USED FOR BIDDING PURPOSES.
- B. IF A DEPARTURE FROM THE APPROVED PLANS (WHICH WOULD AFFECT ANY NATURAL AND/OR CULTURAL RESOURCES) IS NECESSARY, CONTACT THE ENVIRONMENTAL STUDIES SECTION AT (302-760-2264 OR DOT_ENVIRONMENTALSTUDIES@DELAWARE.GOV) TO ALLOW FOR COORDINATION WITH THE APPROPRIATE RESOURCE AGENCIES AND APPROVAL.
- C. USE OF THIS SHEET DOES NOT ALLEVIATE THE CONTRACTOR'S RESPONSIBILITY TO COMPLY WITH ALL CONDITIONS SET FORTH IN THE ENVIRONMENTAL STATEMENT AND PERMITS.

2. NATURAL RESOURCE ISSUES:

- A. PERMIT REQUIREMENTS/APPROVALS *:
 U.S. ARMY CORPS OF ENGINEERS (COE): NATIONWIDE PERMIT NWP 23 WITH PRECONSTRUCTION NOTIFICATION (PCN)**
 DNREC WETLANDS & SUBAQUEOUS LANDS (WLSL): WETLANDS & SUBAQEOUS LANDS PERMIT**
 DNREC WATER QUALITY (WQC) & COASTAL ZONE CONSISTENCY (CZM): ISSUED NWP 23
- THE PERMITS/APPROVALS LISTED ARE THOSE REQUIRED FOR THIS PROJECT. THE ENVIRONMENTAL STUDIES SECTION IS RESPONSIBLE FOR COORDINATING AND/OR OBTAINING THESE APPROVALS.
- ** THE CONTRACTOR MUST ENSURE THAT THESE PERMITS/APPROVALS ARE IN THEIR POSSESSION PRIOR TO BEGINNING CONSTRUCTION IN THE PERMITTED AREA(S) AND ENSURE THEY ARE DISPLAYED ON-SITE DURING THE ENTIRE CONSTRUCTION PERIOD.
- B. CONSTRUCTION RESTRICTIONS:
 FISHERIES NO IN-WATER WORK FROM MARCH 1 TO JUNE 30
 ENDANGERED SPECIES NONE
 MIGRATORY BIRDS NONE

3. CULTURAL RESOURCE ISSUES:

THERE ARE NO CULTURAL RESOURCE CONCERNS WITH THE PROJECT AS CURRENTLY DESIGNED. SHOULD IT BE NECESSARY TO ADD ADDITIONAL ACCESS LOCATIONS OR STAGING/STOCKPILING AREAS OUTSIDE OF THE LIMITS OF CONSTRUCTION (LOC), OR OTHERWISE MODIFY THE LOC OR PROJECT SCOPE FROM WHAT IS DETAILED IN THE APPROVED PLANS, DELDOT ENVIRONMENTAL STUDIES STAFF (DOT ENVIRONMENTALSTUDIES@DELAWARE.GOV, (302) 760-4887) MUST CONTACTED TO REVIEW THESE CHANGES FOR POTENTIAL CULTURAL RESOURCES CONCERNS AND COORDINATE WITH THE FEDERAL HIGHWAY ADMINSTRATION AND DE STATE HISTORIC PRESERVATION OFFICE AS NECESSARY.

4. STREAM RESTORATION AND RIPRAP TREATMENT:

- A. FOLLOW THE SPECIAL PROVISION FOR ITEM 707500 CHANNEL BED FILL IN REGARDS TO THE SALVAGING OF ON-SITE NATURAL STREAM BOTTOM MATERIAL OR THE FURNISHING OF OFFSITE MATERIAL. IF SUFFICIENT SOURCES FOR CHANNEL BED FILL DO NOT EXIST ON-SITE, ANY NEW MATERIAL MUST CONFORM TO THE REQUIREMENTS OF ITEM 707500 CHANNEL BED FILL. RECESS ALL RIPRAP IN THE CHANNEL BOTTOM (I.E. BELOW THE WATER LINE) ONE FOOT BELOW STREAM BED ELEVATION AND CHOKE WITH BORROW TYPE 'B' SO THAT ALL OF THE VOIDS IN THE RIPRAP ARE FILLED WITH SPECIFIED MATERIAL. PAYMENT UNDER ITEM 209002 BORROW, TYPE B. COVER THE RIPRAP WITH A MINIMUM OF 12" CHANNEL BED FILL. MATCH THE FINAL CHANNEL ELEVATIONS WITH EXISTING ELEVATIONS AT THE UPSTREAM AND DOWNSTREAM PROJECT LIMITS. THROUGH THE STRUCTURE, ELEVATIONS WILL BE AS NOTED ON THE PLANS. PAYMENT UNDER ITEM 707500 CHANNEL BED FILL.
- B. RESTORE OTHER AREAS OF THE CHANNEL BOTTOM AFFECTED BY CONSTRUCTION (INCLUDING, BUT NOT LIMITED TO, THE LOCATION OF SUMP PITS, STABILIZED OUTFALLS, TEMPORARY PIPES AND/OR SANDBAG DIKES AND DIVERSIONS) TO EXISTING CONDITIONS. FILL ANY CAVITIES OR SCOUR HOLES RESULTING FROM CONSTRUCTION ACTIVITIES WITH CHANNEL BED FILL. PAYMENT UNDER ITEM 707500 CHANNEL BED FILL.
- C. WHEN ALL EROSION AND SEDIMENT CONTROL MEASURES ARE REMOVED AND THE STREAM RETURNS TO ITS NATURAL FLOW CONDITIONS, THE FLOW MUST REMAIN ABOVE GROUND AND ABOVE THE RIPRAP (I.E. THE FLOW CANNOT BE "LOST" IN THE RIPRAP OR BENEATH THE STRUCTURE). IF THIS IS NOT ACHIEVED, THE CONTRACTOR WILL BE REQUIRED TO TAKE CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
- D. CHOKE ALL RIPRAP ON THE STREAM BANK, OUTSIDE THE CHANNEL BED, WITH DELAWARE #57 STONE. PLACE JUST ENOUGH CHOKE MATERIAL TO PREVENT THE LOSS OF TOPSOIL THROUGH THE RIPRAP, AND THEN FINISH FILLING THE VOIDS WITH TOPSOIL SO THAT THE RIPRAP PEAKS ARE BARELY VISIBLE. PLACE AN ADDITIONAL 6-INCH TOPSOIL LAYER ON TOP OF THE RIPRAP. SLOPE SEEDING WILL BE DONE WITH ITEM 908019 STREAMBANK SEED MIX, SEEDING. FOLLOWING THE SEEDING OPERATION, INSTALL ITEM 908020 EROSION CONTROL BLANKET (ECB) MULCH, OR OTHER BLANKET AS SHOWN ON THE PLANS. ECB AT TOE OF SLOPE CAN BE EITHER TRENCHED IN OR STAPLED AT 6" ON CENTER. COMPLETE ALL WORK, STARTING WITH THE INITIAL CHOKING WITH TOPSOIL THROUGH THE SEEDING AND MULCHING PRIOR TO ANY RAIN EVENT. DELAWARE #57 STONE IS INCIDENTAL TO THE RIPRAP ITEM. ALL OTHER ITEMS WILL BE PAID FOR UNDER THEIR RESPECTIVE ITEMS.
- E. THE TOPSOIL/SEED/MULCH CAN BE PLACED BEFORE OR AFTER THE REMOVAL OF THE STREAM DIVERSION. IF THE PLACEMENT OCCURS AFTER STREAM DIVERSION REMOVAL, USE A TURBIDITY CURTAIN TO MINIMIZE IN-STREAM SEDIMENTATION. PAYMENT WILL BE INCIDENTAL TO ITEM 909005 STREAM DIVERSION.

5. PROTECTION OF RESOURCES:

- A. KEEP CLEARING IN WETLAND AREAS TO A MINIMUM ABSOLUTELY NECESSARY FOR CONSTRUCTION ACCESS. SUPPORT ALL EQUIPMENT TRAVERSING WETLANDS AND SUBAQUEOUS LAND ON MATS. PAYMENT FOR MATS WILL BE MADE UNDER ITEM 621500 TEMPORARY TIMBER MAT. IN WETLAND AREAS THAT ARE CLEARED, NO GRUBBING EXCEPT WHERE NECESSARY TO CONSTRUCT PROJECT COMPONENTS SUCH AS FOUNDATIONS AND RIPRAP PROTECTION IS PERMITTED. CUT VEGETATION FLUSH WITH THE GROUND (I.E. NO DISTURBANCE OF THE ROOT MAT). RESTORE TEMPORARILY DISTURBED WETLAND AREAS TO GRADE AND SEED WITH ITEM 908017 TEMPORARY GRASS SEEDING (ANNUAL RYEGRASS).
- B. USE SILT FENCE OR CONSTRUCTION SAFETY FENCE ALONG THE LIMITS OF CONSTRUCTION IN ALL AREAS WHERE WATER WETLANDS ARE BEING IMPACTED (AS SHOWN ON ENVIRONMENTAL COMPLIANCE SHEETS), AND ALSO IN ANY AREA WHERE WATER/WETLANDS EXIST WITHIN 20 FEET OF THE LIMIT OF CONSTRUCTION (AS SHOWN ON CONSTRUCTION PLAN SHEETS). ANY CONTRACTOR ACCESS BEYOND THE LIMIT OF CONSTRUCTION IS STRICTLY PROHIBITED.
- C. USE SANDBAGS OR COMPOST FILTER LOG (CFL) TO SECURE SILT FENCE AT AREAS ADJACENT TO WOODED UPLANDS/ ALL WETLANDS IN LIEU OF TRENCHING UNLESS PROPER EROSION AND SEDIMENT CONTROL CANNOT BE MAINTAINED. REMOVE SANDBAGS AND CFLS (AND CONTENTS) IN THEIR ENTIRETY WHEN NO LONGER NEEDED. SANDBAGS/CFLS USED TO SECURE THE SILT FENCE IS INCIDENTAL TO ITEM 905001 SILT FENCE. THE ENVIRONMENTAL STUDIES SECTION (302-760-2259 OR DOT ENVIRONMENTALSTUDIES@DELAWARE.GOV) CAN PROVIDE FURTHER GUIDANCE REGARDING THIS METHOD OF INSTALLATION.
- D. CLEARLY MARK ALL TREES TO BE REMOVED WITH PAINT PRIOR TO THE EROSION AND SEDIMENT CONTROL MEETING.

6. MITIGATION:

11-SEP 15:08 \\DOTF A. MITIGATION IS REQUIRED FOR PERMANENT IMPACTS TO WETLANDS AND WILL BE FULLFILLED AT DELAWARE BOTANIC GARDENS.

ADDENDA /	REVISIONS	

PERMANENT WETLAND IMPACT AREA SCHEDULE										
I D	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	LOSS AREA (AC)			
2-W-01	FILL TYPE F / 36" RCP	2408.31	0.0553	N/A	USACE	IMPACT	0.0000			
2-W-02	FILL TYPE F	1204.77	0.0277	N/A	USACE	LOSS	0.0277			
2-W-03	FILL TYPE F	815.07	0.0187	N/A	USACE	LOSS	0.0187			
4-W-01	FILL TYPE F / RIP RAP	1495.27	0.0343	N/A	USACE	LOSS	0.0343			
4-W-02	FILL TYPE F / RIP RAP	193.88	0.0045	N/A	USACE	LOSS	0.0045			
4-W-03	FILL TYPE F / RIP RAP	57.23	0.0013	N/A	USACE	LOSS	0.0013			
4-W-04	FILL TYPE F / RIP RAP	967.41	0.0222	N/A	USACE	LOSS	0.0222			
5-W-01	FILL TYPE F	259.76	0.0060	N/A	USACE	LOSS	0.0060			
5-W-02	FILL TYPE F	258.27	0.0059	N/A	USACE	LOSS	0.0059			
5-W-03	RIP RAP	102.71	0.0024	N/A	USACE	LOSS	0.0024			
5-W-04	FILL TYPE F	894.68	0.0205	N/A	USACE	LOSS	0.0205			
TOTAL PER	RMANENT WETLAND IMPACT AREAS	9447.66	0.1987	N/A	USACE	N/A	N/A			
TOTAL PER	RMANENT WETLAND LOSS AREAS	·			USACE		0.1435			

	PERMANENT OPEN WATER IMPACT AREA SCHEDULE										
I D	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	LOSS AREA (AC)				
2-0-01	FILL TYPE F	281.72	0.0065	3.48	USACE/DNREC	LOSS	0.0065				
2-0-02	36" RCP AND FES	88.75	0.0020	1.10	USACE/DNREC	IMPACT	0.0000				
4-0-01	FILL TYPE F	214.45	0.0049	3.97	USACE/DNREC	LOSS	0.0049				
4-0-02	29" X 45" RCP AND FES	81.25	0.0019	1.50	USACE/DNREC	IMPACT	0.0000				
TOTAL PER	TOTAL PERMANENT OPEN WATER IMPACTS 666.17 0.0153 10.05 USACE/DNREC N/A N/						N/A				
TOTAL PER	TOTAL PERMANENT OPEN WATER LOSS AREAS USACE/DNREC 0.011						0.0114				

	TEMPORARY OPEN WATER IMPACT AREA SCHEDULE										
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION						
2-0T-01	WORK AREA / E&S CONTROLS	272.77	0.0063	2.52	USACE/DNREC						
2-0T-02	36" RCP	214.87	0.0049	19.00	USACE/DNREC						
4 - OT - 01	29" X 45" RCP	191.00	0.0044	16.50	USACE/DNREC						
4-0T-02	WORK AREA / E&S CONTROLS	254.35	0.0058	3.45	USACE/DNREC						
4-0T-03	WORK AREA / E&S CONTROLS	128.17	0.0029	3.39	USACE/DNREC						
TOTAL TEM	PORARY WETLAND IMPACT AREAS	1061.16	0.0244	44.86	USACE/DNREC						

	TEMPORARY WETLAND IMPACT AREA SCHEDULE										
ID	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION						
2-WT-01	WORK AREA / E&S CONTROLS	1062.19	0.0244	N/A	USACE						
2-WT-02	WORK AREA / E&S CONTROLS	1319.89	0.0303	N/A	USACE						
4-WT-01	WORK AREA / E&S CONTROLS	2652.34	0.0609	N/A	USACE						
4-WT-02	WORK AREA / E&S CONTROLS	320.65	0.0074	N/A	USACE						
4-WT-03	WORK AREA / E&S CONTROLS	560.07	0.0129	N/A	USACE						
4-WT-04	WORK AREA / E&S CONTROLS	2519.31	0.0578	N/A	USACE						
5-WT-01	WORK AREA / E&S CONTROLS	426.61	0.0098	N/A	USACE						
5-WT-02	WORK AREA / E&S CONTROLS	1667.54	0.0383	N/A	USACE						
5-WT-03	WORK AREA / E&S CONTROLS	1138.39	0.0261	N/A	USACE						
TOTAL TEM	PORARY WETLAND IMPACT AREAS	11666.99	0.2678	N/A	USACE						

NOTES.

NOT TO SCALE

WETLANDS DELINEATED BY COASTAL RESOURCES INC IN 11/2016 IN ACCORDANCE WITH UNITED STATES ARMY CORPS OF ENGINEERS WETLAND DELINEATION MANUAL 1987 AND THE ATLANTIC GULF COASTAL PLAIN REGIONAL SUPPLEMENT (2010). DNREC JURISDICTION APPEARS ON MAP DNR 431.

HSIP SC, SR24 AT ANGOLA ROAD

SHEET PREPARED BY DELDOT 6/21/2023 SHEET LAST UPDATED 6/21/2023

CONTRACT
BRIDGE NO.

T202400902
COUNTY

DESIGNED BY: W. NAUMAN

COUNTY

CHECKED BY: J. GAINES

SECTION

ENVIRONMENTAL
COMPLIANCE PLAN

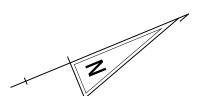
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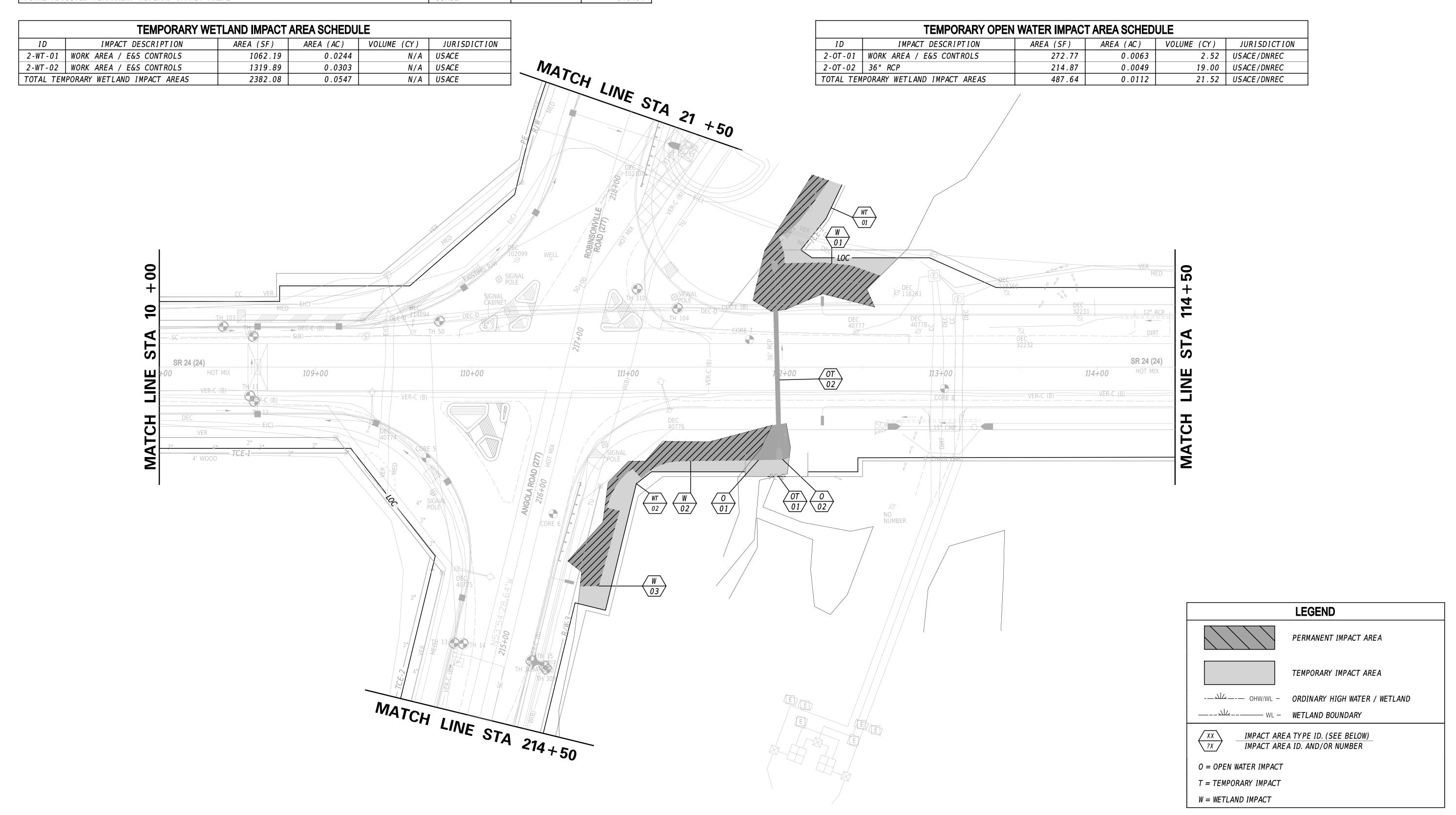
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	PERMANENT WETLAND IMPACT AREA SCHEDULE										
I D	IMPACT DESCRIPTION	AREA (SF)	AREA (AC)	VOLUME (CY)	JURISDICTION	LOSS VS. IMPACT	AREA (AC)				
2-W-01	FILL TYPE F / 36" RCP	2408.31	0.0553	N/A	USACE	IMPACT	0.0000				
2-W-02	FILL TYPE F	1204.77	0.0277	N/A	USACE	LOSS	0.0277				
2-W-03	FILL TYPE F	815.07	0.0187	N/A	USACE	LOSS	0.0187				
TOTAL PER	RMANENT WETLAND IMPACT AREAS	4428.15	0.1017	N/A	USACE	N/A	N/A				
TOTAL ADJ	IUSTED PERMANENT WETLAND IMPACT A	REAS			USACE		0.0464				

ADDENDA / REVISIONS

	PERMANENT OPEN WATER IMPACT AREA SCHEDULE									
ID	ID IMPACT DESCRIPTION AREA (SF) AREA (AC) VOLUME (CY) JURISDICTION LOSS VS. IMPACT AREA (AC)									
2-0-01	FILL TYPE F	TYPE F 281.72 0.0065 3.48 USACE/DNREC LOSS								
2-0-02	36" RCP AND FES	88.75	0.0020	1.10	USACE/DNREC	IMPACT	0.0000			
TOTAL PER	TOTAL PERMANENT OPEN WATER IMPACTS 370.47 0.0085 4.58 USACE/DNREC N/A N/A									
TOTAL ADJ	TOTAL ADJUSTED PERMANENT OPEN WATER IMPACT AREAS USACE/DNREC 0.0065									





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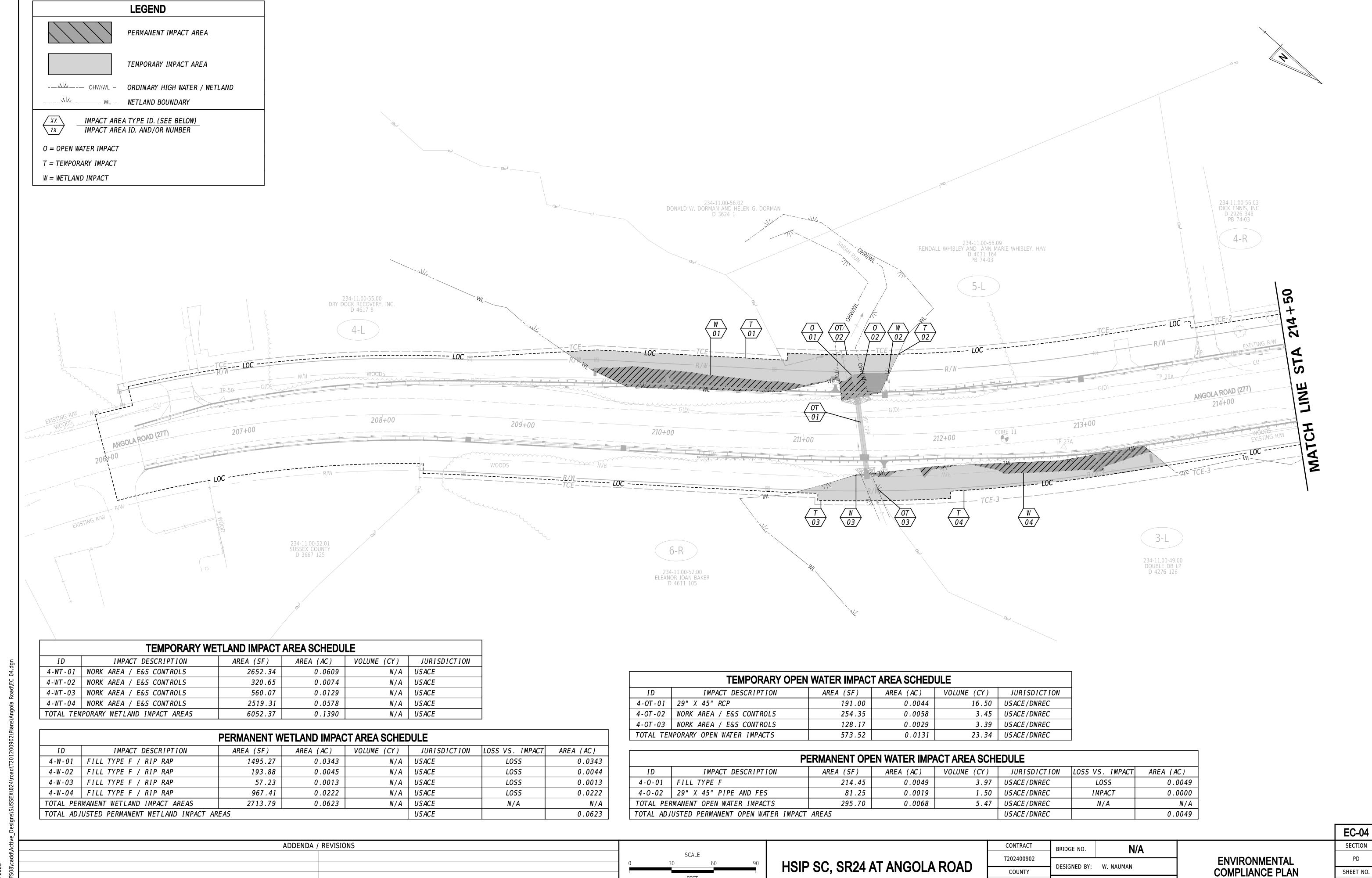
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HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A		
T202400902	DECICNED BY:	W MAIIMAN		
COUNTY	DESIGNED BY:	W. NAUMAN		
SUSSEX	CHECKED BY:	J. GAINES		

ENVIRONMENTAL COMPLIANCE PLAN

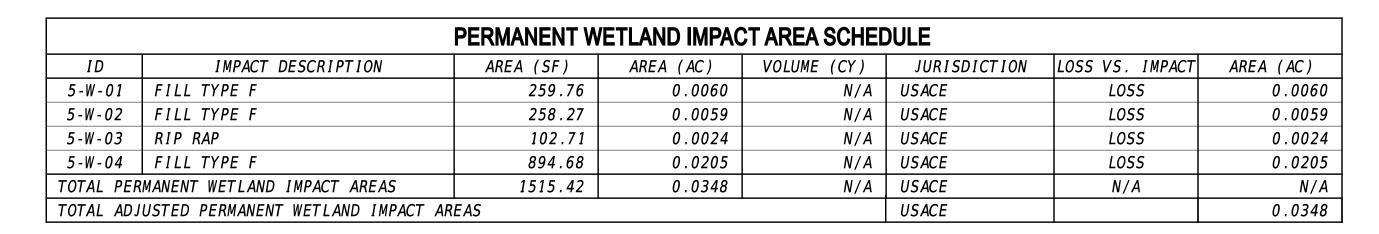
SECTION
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CHECKED BY: J. GAINES

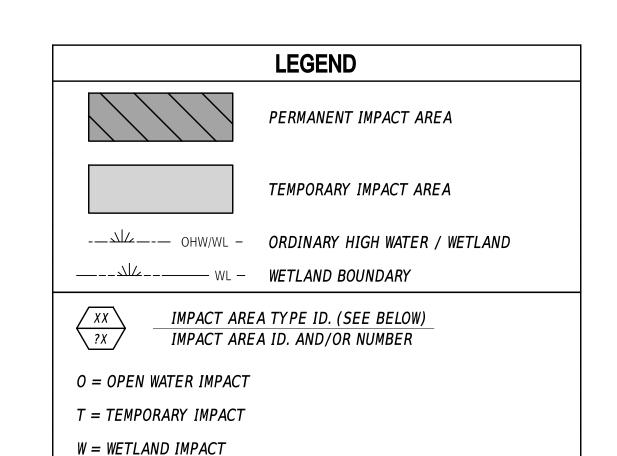
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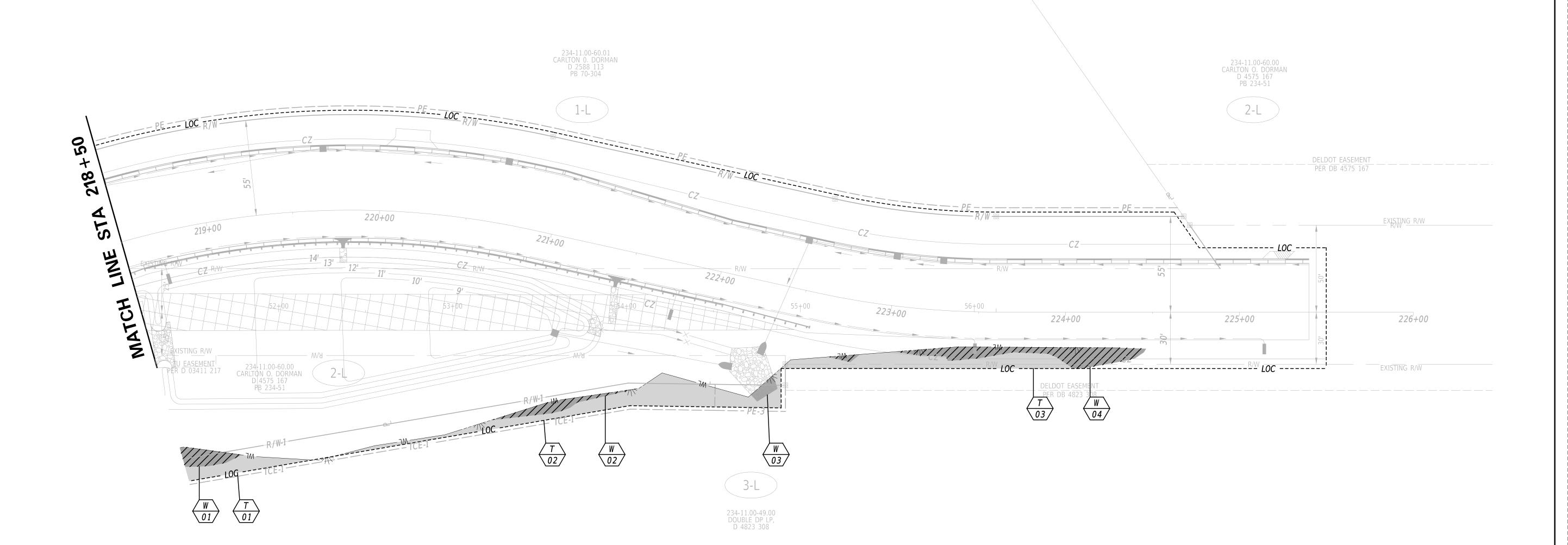
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ADDENDA / REVISIONS

	TEMPORARY WETLAND IMPACT AREA SCHEDULE									
ID	ID IMPACT DESCRIPTION AREA (SF) AREA (AC) VOLUME (CY) JURISDICTION									
5-WT-01	WORK AREA / E&S CONTROLS	426.61	0.0098	N/A	USACE					
5-WT-02	WORK AREA / E&S CONTROLS	1667.54	0.0383	N/A	USACE					
5-WT-03	WORK AREA / E&S CONTROLS	1138.39	0.0261	N/A	USACE					
TOTAL TEM	TOTAL TEMPORARY WETLAND IMPACT AREAS 3232.54 0.0742 N/A USACE									





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SCALE
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HSIP SC, SR24 AT ANGOLA ROAD

ONTRACT	BRIDGE NO.	N/A				
00.400000		14// 3				
202400902	DESIGNED BY:	W NATIMAN				
COUNTY	DESIGNED BY.	W. NAUMAN				
SUSSEX	CHECKED BY:	J. GAINES				

ENVIRONMENTAL PD SHEET NO.

EC-05

GENERAL MOT NOTES

- MAINTENANCE OF TRAFFIC DURING LANE CLOSURES AND LANE SHIFTS SHALL CONFORM TO TYPICAL APPLICATION 3, 10, 11B, AND 17 OF THE DELAWARE MUTCD.
- THE USE OF MILLINGS AND GRADED AGGREGATE BASE COURSE (GABC) IN THE TRAVEL WAY, TEMPORARY TRAVEL WAY, HIGH VOLUME ENTRANCES AND ACCESS RAMP FOR THE PURPOSE OF PROVIDING A TEMPORARY ROADWAY SURFACE, POTHOLE REPAIR, TAPERED EDGE FOR UTILITIES, BUTT JOINTS, AND LONGITUDINAL DROP-OFFS (MILLING AND PAVING OPERATIONS) IS PROHIBITED UNLESS IT IS OTHERWISE DESIGNATED TO BE USED IN THE CONTRACT PLANS. USE COLD PATCH, BITUMINOUS CONCRETE, BITUMINOUS CONCRETE WEDGE, OR TAPER MILL, AS NOTED IN THE CONTRACT DOCUMENTS OR APPROVED BY THE ENGINEER. PAYMENT FOR COLD PATCH, BITUMINOUS CONCRETE OR BITUMINOUS CONCRETE WEDGE SHALL BE PAID AS NOTED IN THE CONTRACT DOCUMENTS. TAPER MILL BITUMINOUS CONCRETE SHALL BE PAID UNDER THE BITUMINOUS CONCRETE MILLING ITEM.

MILLINGS OR GABC SHALL BE USED AT THE FOLLOWING LOCATIONS WHERE ACCESS TO A BUSINESS, RESIDENCE, OR EDGE DROP OFF NEEDS TO BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS OR DIRECTED BY THE ENGINEER TO USE BITUMINOUS CONCRETE OR COLD PATCH. ALL MILLINGS AND GABC WILL BE ROLLED AND COMPACTED TO HELP PREVENT THE MATERIAL FROM UNRAVELLING:

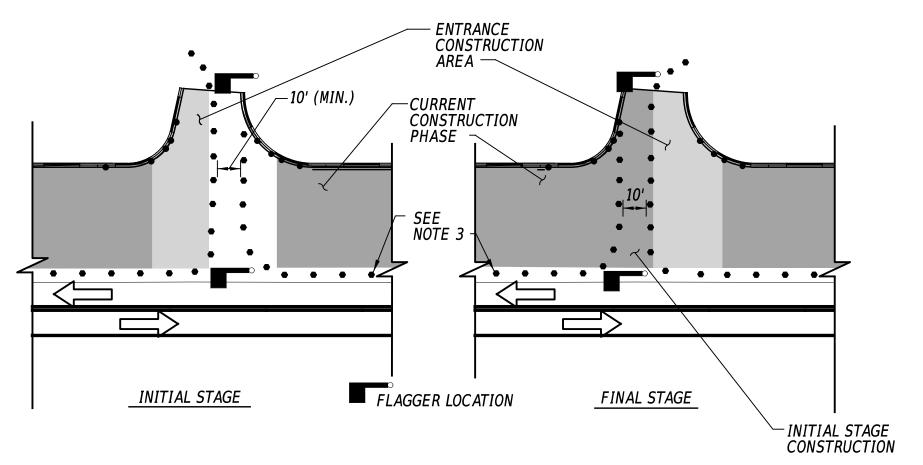
- DRIVEWAY S
- **ENTRANCES**
- LOW VOLUME ACCESS RAMPS (IDENTIFIED IN THE CONTRACT DOCUMENTS)
- EDGE DROP-OFFS ADJACENT TO LIVE ROADWAY (LANES AND SHOULDER) AND THE PROPOSED ROAD CONSTRUCTION
- EDGE OF ROADWAY DROP-OFF

GRADING AND MAINTAINING BASE COURSE THAT IS BEING USED FOR ROADWAY WEDGE/FILLET BETWEEN TRAVEL LANES AND PAVEMENT BOX, EDGE OF TRAVELWAY, DRIVEWAY OR ENTRANCE ACCESS SHALL BE INCIDENTAL TO ITEM NO. 801000 - MAINTENANCE OF TRAFFIC. THE BASE COURSE MATERIAL SHALL BE PLACED AT NO GREATER THAN THE SLOPE SPECIFIED IN TABLE 6G-1 AND SHALL BE COMPACTED. EXCESS BASE COURSE MATERIAL SHALL BE PUSHED AHEAD AND USED IN THE NEXT SEGMENT AND SHALL BE INCIDENTAL TO THE PARTICULAR BASE COURSE PAY ITEM. NO SEPARATE PAYMENT SHALL BE MADE FOR MILLINGS OR GABC TEMPORARY ROADWAY MATERIAL (TRM) USED TO PROTECT EDGE DROP-OFFS, UNLESS THE MATERIAL IS EVENTUALLY UTILIZED AS PART OF A PERMANENT ROADWAY AT WHICH TIME THE MATERIAL WOULD BE PAID FOR UNDER THE RESPECTIVE CONTRACT MATERIAL ITEM. VERTICAL DIFFERENCES SHALL BE CORRECTED IN ACCORDANCE WITH TABLE 6G-1 OF THE DELAWARE

- ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRETE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGING AND RAILINGS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 801000 UNLESS OTHERWISE SPECIFIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.
- ADDITIONAL LANE RESTRICTIONS WILL BE ENFORCED BY THE ENGINEER, IN CONSULTATION WITH THE DISTRICT SAFETY OFFICER, TO ACCOMMODATE PERMITTED PLANNED SPECIAL EVENTS THROUGH THE WORK ZONE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ADDITIONAL RESTRICTIONS TWO WEEKS PRIOR TO THE START OF THE RESTRICTION.
- THE CONTRACTOR SHALL PROVIDE ONE TRAFFIC OFFICER FOR ANY OPERATION WHERE AN EXISTING SIGNALIZED INTERSECTION IS PLACED IN FLASH-MODE. THE TRAFFIC OFFICER IS THE ONLY INDIVIDUAL THAT CAN PLACE A TRAFFIC SIGNAL IN FLASH-MODE AND THE TRAFFIC OFFICER MUST STAY ON LOCATION UNTIL THE SIGNAL IS PLACED BACK IN STOP-AND-GO OPERATION IN ACCORDANCE WITH DELDOT'S TEMPORARY TRAFFIC CONTROL WITHIN INTERSECTIONS MEMORANDUM (WWW.MUTCD.DELDOT.GOV).
- CONTRACTOR TO INSTALL, REMOVE, ADJUST, AND REPOSITION ALL OVERHEAD AND TEMPORARY PEDESTRIAN SIGNAL EQUIPMENT AS REQUIRED.
- CONTRACTOR TO PERFORM ANY NEEDED SIGNAL HEAD SLIDES AND ADJUSTMENTS TO TEMPORARY PEDESTRIAN SIGNAL EQUIPMENT TO ACCOMMODATE ALL REQUIRED CONSTRUCTION PHASES. THE CONTRACTOR SHALL CONTACT THE SIGNAL CONSTRUCTION MANAGER AT 302-760-2565 A MINIMUM OF 10 DAYS PRIOR TO ANY REQUIRED TRAFFIC SWITCH AND/OR SIGNAL HEAD SLIDES.
- TMC TRAFFIC FORCES TO MODIFY EXISTING SIGNAL PHASING TO ACCOMMODATE NEW SIGNAL OPERATION. THE CONTRACTOR SHALL CONTACT THE TMC AT 302-760-2080 A MINIMUM OF 10 DAYS PRIOR TO ANY REQUIRED NEW SIGNAL OPERATION.
- ACCEPTABLE MATERIALS FOR TEMPORARY PEDESTRIAN PATHS SHALL INCLUDE CONCRTE, HOT-MIX, COMPACTED MILLINGS OR PLYWOOD WALKWAY STRUCTURE. PLYWOOD WALKWAY STRUCTURES SHALL ALSO INCLUDE DETECTABLE EDGIN AND RAILINS IN ACCORDANCE WITH ADA GUIDELINES AND THE DELAWARE MUTCD. TEMPORARY PEDESTRIAN PATHS SHALL BE INCIDENTAL TO ITEM 801000 UNLESS OTHERWISE SPECFICIED IN THE PLANS. STONE OR GRADED AGGREGATE BASE COURSE SHALL NOT BE USED FOR TEMPORARY PEDESTRIAN PATHS.
- ALL M.O.T. SIGNAL HEADS AND CABLES SHALL BE REMOVED. NEW SIGNAL HEAD AND CABLE SHALL BE INSTALLED PRIOR TO FINAL CONFIGURATION.
- 12. THE CONTRACTOR SHALL NOT DETOUR BOTH ANGOLA ROAD AND ROBINSONVILLE ROAD CONCURRENTLY.
- AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED TRAFFIC CONTROL SUPERVISOR REQUIREMENT FOR THIS PROJECT.

(X)	THE CONTRACTOR SHALL NOT BE REQUIRED TO HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT.
()	THE CONTRACTOR SHAL HAVE AN ATSSA SUPERVISOR ASSIGNED TO THIS PROJECT AND THAT PERSON'S SOLE RESPONSIBILITY SHALL BE THE MANAGEMENT AND SUPERVISION OF THE PROJECT'S TEMPORARY TRAFFIC CONTROL ACTIVITIES. THIS PERSON SHALL NOT HAVE ANY OTHER ROLE ON THE PROJECT. RESPONSIBILITIES AND REQUIREMENTS OF THE ATSSA SUPERVISOR ARE DEFINED IN SECTION 812 OF THE STANDARD SPECIFICATIONS. PAYMENT FOR ATSSA SUPERVISOR IS INCIDENTAL TO ITEM 801000.

ADDENDA / REVISIONS



TYPICAL DRIVEWAY/ ENTRANCE RECONSTRUCTION NOT TO SCALE

NOTES:

- 1. THIS DETAIL PROVIDES THE PROPER TRAFFIC CONTROL DEVICES AT DRIVEWAYS AND ENTRANCES THAT ARE TO BE BUILT IN HALF-SECTION UNDER FLAGGER CONTROL. APPLICATION OF THIS DETAIL SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER. TRAFFIC CONTROL DEVICES AT ENTRANCES SHALL BE RESET TO MAIN PHASE AT END OF EACH WORKING DAY.
- 2. CHANNELIZATION THROUGH ENTRANCE AREA SHALL BE ACCOMPLISHED WITH DRUMS PLACED AT 10' BETWEEN THE EDGES OF THE DRUMS IMMEDIATELY ADJACENT TO THE TRAVELED WAY, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. DRUM LAYOUT SHALL ACCOMMODATE LARGEST DESIGN VEHICLE EXPECTED TO USE ENTRANCE.
- 3. TRAFFIC CONTROL DEVICES ALONG MAINLINE ROADWAY SHALL BE AS SHOWN ON CONSTRUCTION PHASING PLANS.
- 4. DEPENDING ON TRAFFIC VOLUME UTILIZING ENTRANCE AND OTHER SITE-SPECIFIC CONDITIONS, THE NUMBER OF FLAGGERS USED DURING ENTRANCE CONSTRUCTION MAY BE REDUCED FROM 2 TO 1, SUBJECT TO APPROVAL OF ENGINEER.

ALLOWABLE CLOSURES TIMES - SR 24																								
	12:00 AIM	1:00 AM	2:00 AM	3:00 AIM	4:00 AM	5:00 AIM	6:00 AIM	7:00 AM	8:00 AIM	9:00 AIM	10:00 AM	11:00 AM	12:00 PM	1:00 PM	2:00 PIM	3:00 PIM	4:00 PIM	5:00 PIM	6:00 PIM	7:00 PIM	8:00 PIM	9:00 PIM	10:00 PM	11:00 PM
SUNDAY																								
MONDAY																								
TUESDAY																								
WEDNESDAY																								
THURSDAY																								
FRIDAY																								
SATURDAY																								
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	12:00 AM	1:00 AM	NO	TRA	VEL I	LANE	CLC	SUR	ies A	LLO	WED		12:00 PM (AV)	1:00 PM 00:1		3:00 PM NO		RO/ Md 00:5	6:00 PM 07	7:00 PM	8:00 PM	M4 00:6	10:00 PM	11:00 PM
SUNDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PM	10:00 PM	900
			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PIVI	10:00 PM	900
MONDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PIVI	10:00 PM	900
MONDAY TUESDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PW	10:00 PM	900
SUNDAY MONDAY TUESDAY WEDNESDAY THURSDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PIVI	10:00 PM	900
MONDAY TUESDAY WEDNESDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PM	8:00 PM	9:00 PIVI	10:00 PIM	900
MONDAY TUESDAY WEDNESDAY THURSDAY			NO.	TRA'	VEL I	CLOS	CLC	SUR	MES	LLO\ - AN	WED GOL	A RO		:00 PM	PM		Z	:00 PIM		7:00 PIVI	8:00 PM	9:00 PM	10:00 PM	900

GENERAL EROSION AND SEDIMENT CONTROL (E&S) NOTES

THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN APPROVED BY DELDOT'S STORMWATER ENGINEER UNDER DELDOT'S DELEGATED AUTHORITY. PLAN APPROVAL IS VALID FOR A FIVE YEAR PERIOD BEGINNING ON THE DATE OF THE STORMWATER ENGINEER'S SIGNATURE. IF THE FINAL ACCEPTANCE OF THE PROJECT IS ANTICIPATED TO EXTEND BEYOND THE FIVE YEARS, NOTIFY THE ENGINEER THREE MONTHS PRIOR TO THE EXPIRATION. ANY DEVIATIONS TO THE SWPPP NEED APPROVAL FROM THE ENGINEER.

9/27/23 DATE "I CERTIFY TO THE BEST OF MY KNOWLEDGE THESE PLANS MEET THE REQUIREMENTS OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS."

AMOUNT OF DISTURBED AREA FOR THE PROJECT	8.24 AC
ADDED IMPERVIOUS FOR THE PROJECT	56,628 SF
HUC-10 WATERSHED	REHOBOTH BAY

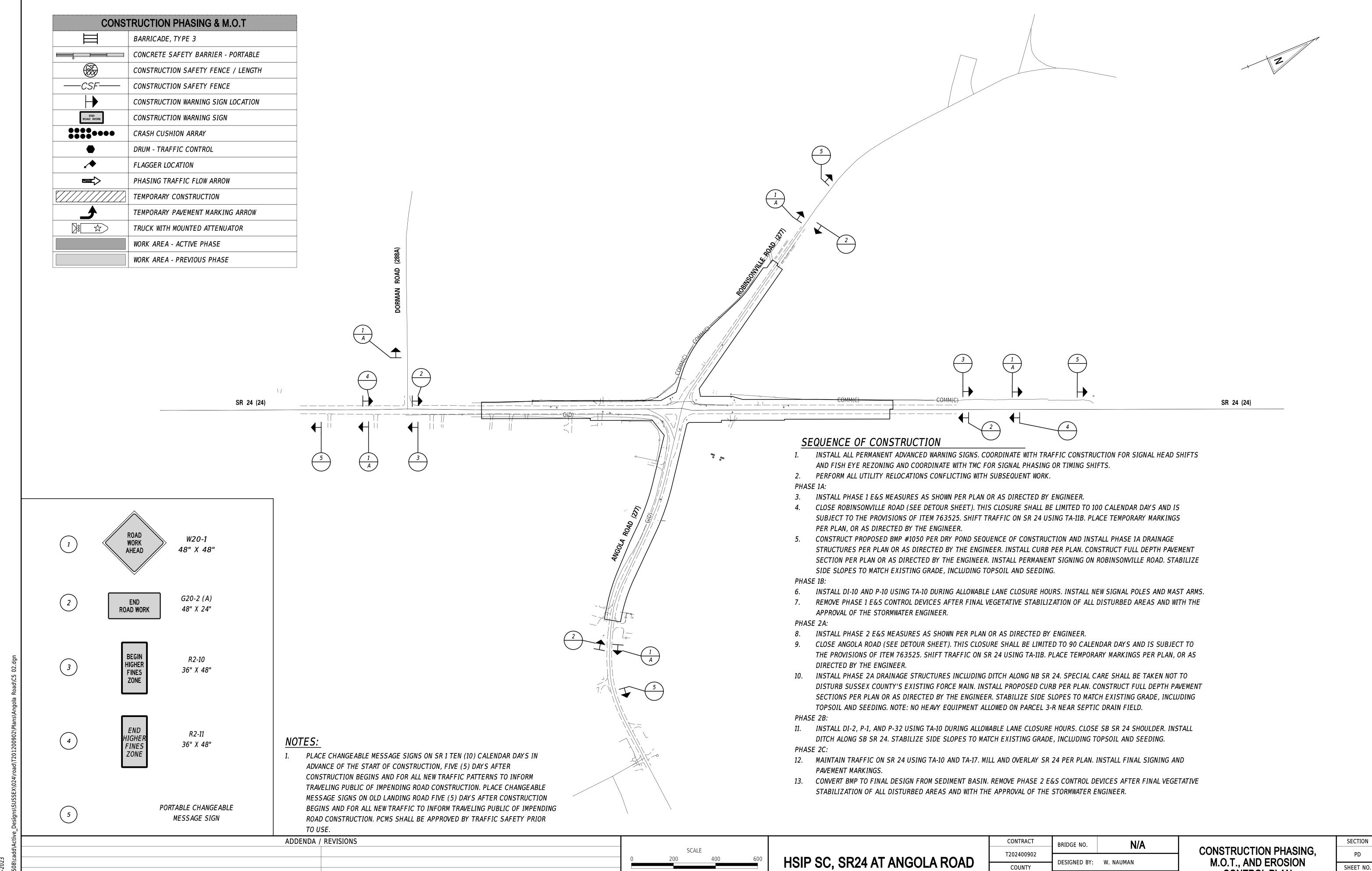
- ASSIGN A RESPONSIBLE PERSON TO BE ON SITE DURING ALL EARTH DISTURBING ACTIVITIES AND BE AN ACTIVE DNREC BLUE CARD HOLDER AS DEFINED IN SECTION 6.2 OF THE DELAWARE SEDIMENT AND STORMWATER REGULATIONS (DSSR). BE FAMILIAR WITH AND COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION GENERAL PERMIT.
- FILE AS A CO-PERMITTEE IN ACCORDANCE WITH SECTION 901 OF THE STANDARD SPECIFICATIONS. POSTING AND MAINTENANCE OF THE NOI PERMIT COVERAGE IS INCIDENTAL TO THE CONTRACT.
- REVISIONS TO THE SWPPP OR ENVIRONMENTAL COMPLIANCE PLAN SHEET(S) SHALL BE APPROVED PRIOR TO INITIATION IN THE FIELD. THE ENGINEER IS RESPONSIBLE FOR APPROVING ALL REDLINES AND REVISIONS TO THE SWPPP.
- IMPLEMENTING AND MAINTAINING POLLUTION PREVENTION DEVICES AND PRACTICES IS REQUIRED UNDER THE DELAWARE CONSTRUCTION GENERAL PERMIT AND THE DSSR AND ARE INCIDENTAL TO THE CONTRACT.
- A SOIL STOCKPILE, AS DESCRIBED IN DELDOT STANDARD SPECIFICATIONS AND DEFINED IN THE DELAWARE EROSION & SEDIMENT CONTROL HANDBOOK, IS ANY LOCATION WITHIN THE LIMITS OF CONSTRUCTION WHERE A TEMPORARY DEPOSIT OF EXCAVATED SOIL IS BEING RESERVED FOR FUTURE USE. A SOIL STOCKPILE SHALL BE LOCATED A MINIMUM OF 50 FEET FROM A STORM DRAIN INLET, OPEN CHANNEL, WETLAND, OR WATERBODY. A REQUEST MAY BE MADE MAY BE MADE TO THE ENGINEER TO PERMIT LOCATING A SOIL STOCKPILE LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL. UPON APPROVAL, IF ANY PART OF A SOIL STOCKPILE IS LESS THAN 50 FEET FROM A STORM DRAIN INLET OR OPEN CHANNEL, INSTALL A SUPER SILT FENCE PERIMETER TO PROTECT THE SOIL STOCKPILE. THE SUPER SILT FENCE MUST BE CONSTRUCTED IN ACCORDANCE WITH 905.3.B.3 OF THE STANDARD SPECIFICATIONS. THE COST FOR INSTALLATION AND MAINTENANCE OF THE STOCKPILE SUPER SILT FENCE IS INCIDENTAL TO THE CONTRACT.
- PROTECT AGAINST SEDIMENT OR DEBRIS LADEN RUNOFF FROM LEAVING THE SITE. CHECK PERIMETER CONTROLS DAILY AND ADJUST OR REPAIR TO FULLY CONTAIN AND CONTROL SEDIMENT FROM LEAVING THE SITE. REMOVE ACCUMULATED SEDIMENT BEFORE IT HAS REACHED HALF OF THE EFFECTIVE CAPACITY OF THE CONTROL. ADJUST OR ALTER MEASURES IN TIMES OF ADVERSE WEATHER CONDITIONS. OR AS DIRECTED BY THE ENGINEER.
- ANY SEDIMENT LADEN DISCHARGE LEAVING THE LIMIT OF CONSTRUCTION SHALL IMMEDIATELY BE ADDRESSED THROUGH BEST AVAILABLE TECHNOLOGIES TO CONTROL ANY FURTHER SEDIMENT LADEN DISCHARGE. REMEDIATION MAY INCLUDE STANDARD E&S PRACTICES OR OTHER METHODS AS APPROVED BY THE ENGINEER.
- ALL TEMPORARY CONCENTRATED FLOW AREAS INCLUDING CHANNEL SIDE SLOPES SHALL HAVE EROSION CONTROL BLANKET MULCH AS DIRECTED BY THE ENGINEER. INSTALL WITHIN SEVEN CALENDAR DAYS UPON CONSTRUCTION INITIATION. A TEMPORARY CONCENTRATED FLOW AREA MAY INCLUDE DITCHES, SWALES, BERMS, CONCENTRATED RUNOFF AREAS, ETC.
- 10. FOR ANY PERMANENT STORMWATER MANAGEMENT FACILITY, FOLLOW THAT FACILITY'S SEQUENCE OF CONSTRUCTION AS NOTED ON THE STORMWATER MANAGEMENT SHEETS.
- NO MORE THAN 20 ACRES MAY BE DISTURBED AT ANY TIME. DISTURBANCE OF A SECOND 20 ACRE SECTION MAY NOT PROCEED UNTIL TEMPORARY OR PERMANENT STABILIZATION OF THE FIRST 20 ACRE SECTION IS ACCOMPLISHED AS APPROVED BY THE ENGINEER.
- 12. MAINTAIN POSITIVE DRAINAGE IN EXISTING AND PROPOSED DRAINAGE SYSTEMS BY EXECUTING CONSTRUCTION, CLEANING EXISTING DRAINAGE SYSTEMS, AND PROPERLY DISPOSING OF SEDIMENT THROUGHOUT THE DURATION OF THE PROJECT.

6-SEP 13-58 \DOTE

HSIP SC, SR24 AT ANGOLA ROAD

	-				
CONTRACT	BRIDGE NO.	N/A			
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T202400902	DECICNED DV.	AN BLALIBAARI			
COUNTY	DESIGNED BY:	W. NAUMAN			
SUSSEX	CHECKED BY:	J. GAINES			

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN

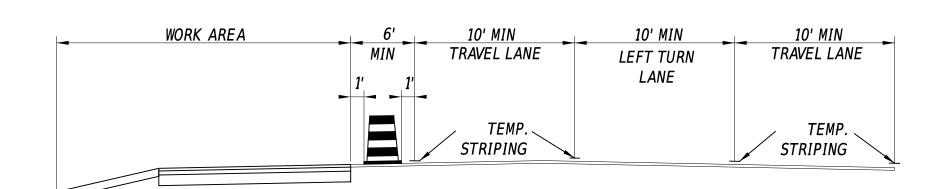


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CONTROL PLAN

CHECKED BY: J. GAINES

SUSSEX



PHASE 1A: SR 24

STATION 100+00 TO STATION 118+00 L = TAPER LENGTH = 500' $L = W \times S$, WHERE W = LANE SHIFT = 10' AND S = OPERATING SPEED = 50 MPH

SEQUENCE OF CONSTRUCTION

M.O.T., AND EROSION

CONTROL PLAN - PHASE 1

SHEET NO.

PHASE 1A:

- 3. INSTALL PHASE 1 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 4. CLOSE ROBINSONVILLE ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 100 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 5. CONSTRUCT PROPOSED BMP #1050 PER DRY POND SEQUENCE OF CONSTRUCTION AND INSTALL PHASE 1A DRAINAGE STRUCTURES PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTION PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL PERMANENT SIGNING ON ROBINSONVILLE ROAD. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 1B:

6. INSTALL DI-10 AND P-10 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. INSTALL NEW SIGNAL POLES AND MAST ARMS.

T202400902

COUNTY

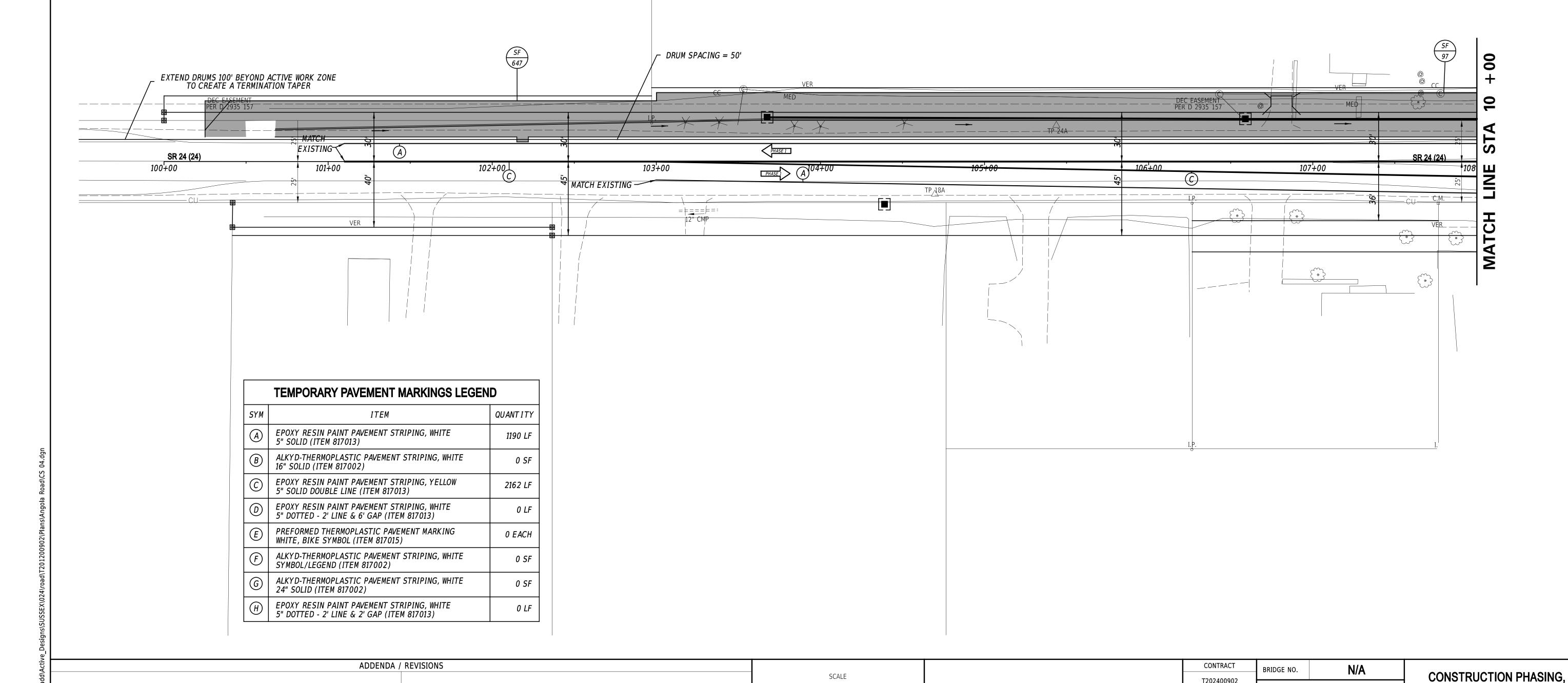
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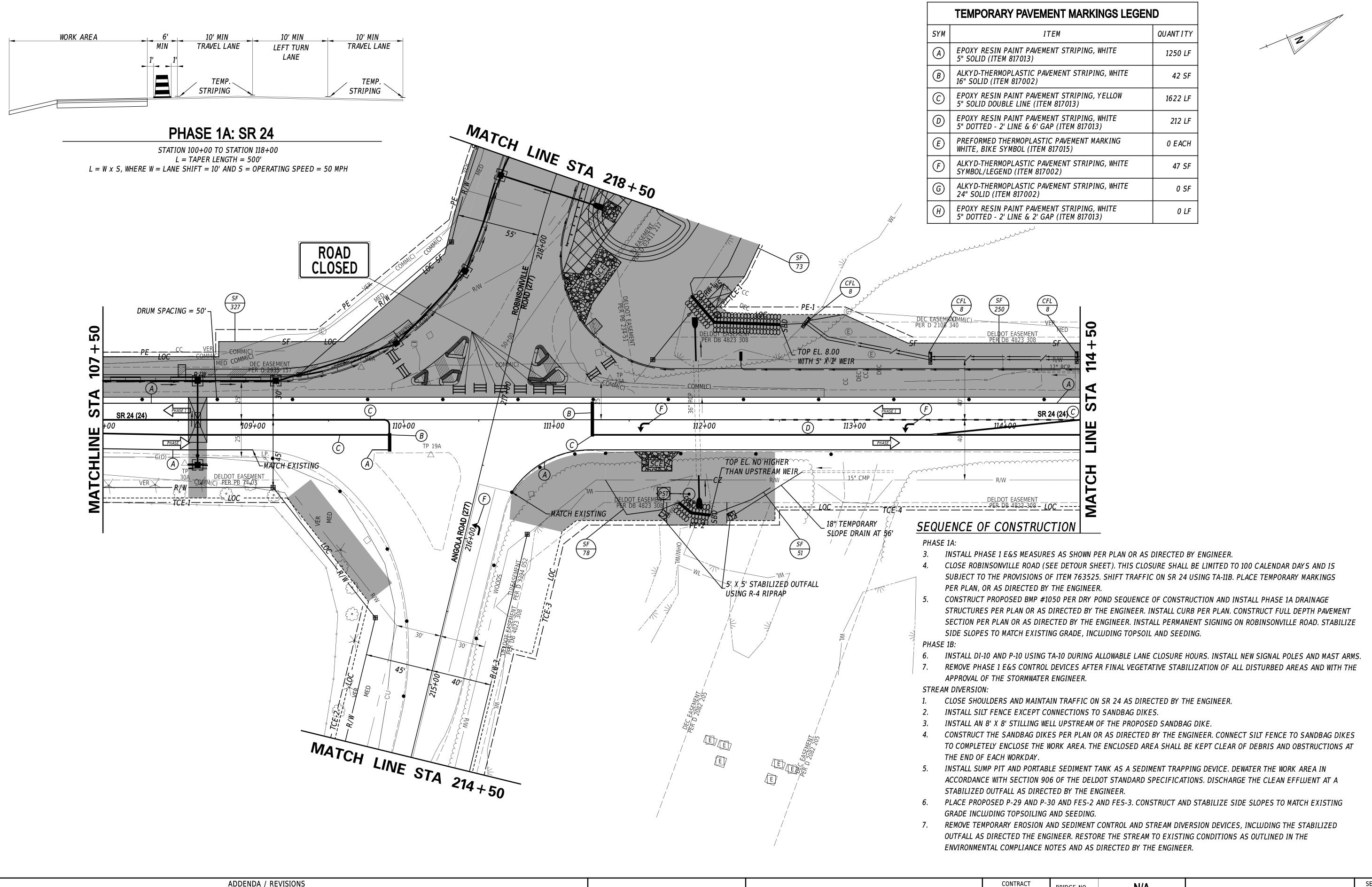
DESIGNED BY: W. NAUMAN

CHECKED BY: J. GAINES

HSIP SC, SR24 AT ANGOLA ROAD

7. REMOVE PHASE 1 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.





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HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A	
T202400902	DESIGNED BY:	W. NAUMAN	
COUNTY	DESIGNED B1.	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1 PD SHEET NO.

PHASE 1A: SR 24

STATION 100+00 TO STATION 118+00 $L = TAPER \ LENGTH = 500'$ $L = W \times S, \ WHERE \ W = LANE \ SHIFT = 10' \ AND \ S = OPERATING \ SPEED = 50 \ MPH$

SEQUENCE OF CONSTRUCTION

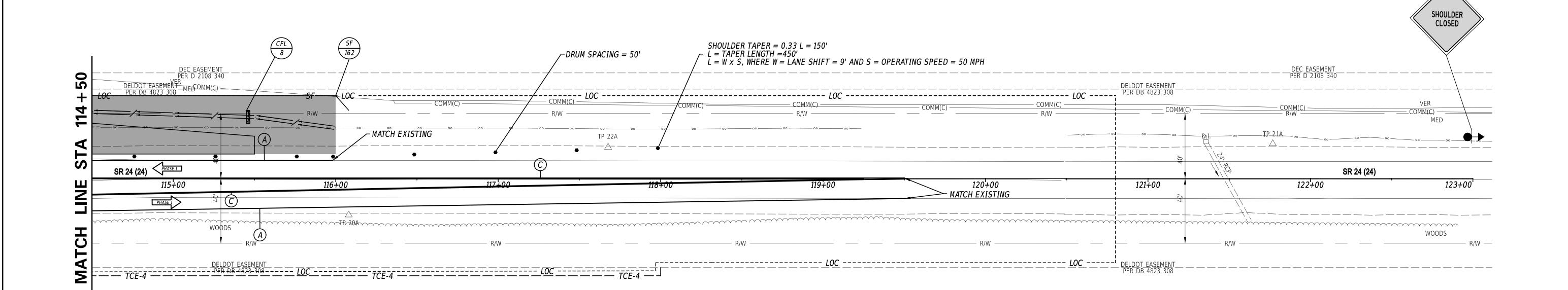
JENCE OF CONSTRUCTION

PHASE 1A:

- INSTALL PHASE 1 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 4. CLOSE ROBINSONVILLE ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 100 CALENDAR DAY'S AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 5. CONSTRUCT PROPOSED BMP #1050 PER DRY POND SEQUENCE OF CONSTRUCTION AND INSTALL PHASE 1A DRAINAGE STRUCTURES PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTION PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL PERMANENT SIGNING ON ROBINSONVILLE ROAD. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 1B:

- 6. INSTALL DI-10 AND P-10 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. INSTALL NEW SIGNAL POLES AND MAST ARMS.
- 7. REMOVE PHASE 1 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.



	TEMPORARY PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANTITY	
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	648 LF	
B	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	0 SF	
0	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 817013)	1950 LF	
D	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 817013)	0 LF	
E	PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (ITEM 817015)	0 EACH	
F	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	0 SF	
G	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	0 SF	
(H)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 2' GAP (ITEM 817013)	0 LF	

ADDENDA /	REVISIONS				•
			SCALE		
		0	30	60	
			FEET		



CONTRACT	BRIDGE NO.	N/A	
T202400002		14// \	
T202400902	DECICNED DV.	AM BLALIMABI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

SECTION
PD
SHEET NO.
38

55 OTFS08\cadd\Active Designs\SUSSEX\024\road\T201200902\Plans\Angola Road\CS 06.

SEQUENCE OF CONSTRUCTION

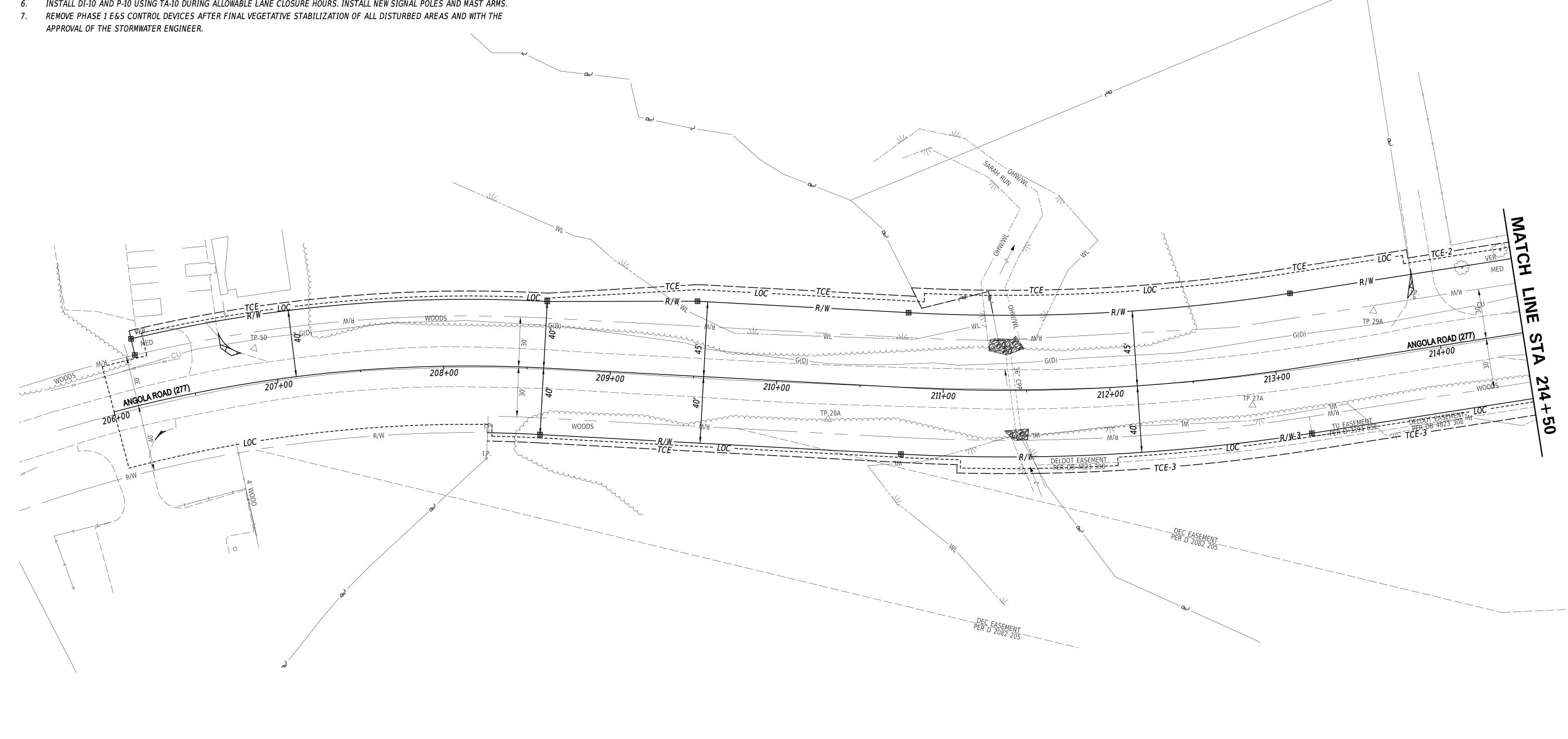
PHASE 1A:

- 3. INSTALL PHASE 1 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- CLOSE ROBINSONVILLE ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 100 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 5. CONSTRUCT PROPOSED BMP #1050 PER DRY POND SEQUENCE OF CONSTRUCTION AND INSTALL PHASE 1A DRAINAGE STRUCTURES PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTION PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL PERMANENT SIGNING ON ROBINSONVILLE ROAD. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 1B:

INSTALL DI-10 AND P-10 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. INSTALL NEW SIGNAL POLES AND MAST ARMS.

ADDENDA / REVISIONS



HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A	
T202400902		14// (
1202100302	DESIGNED BY:	W NAUMAN	
COUNTY	DESIGNED DIT	****	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1

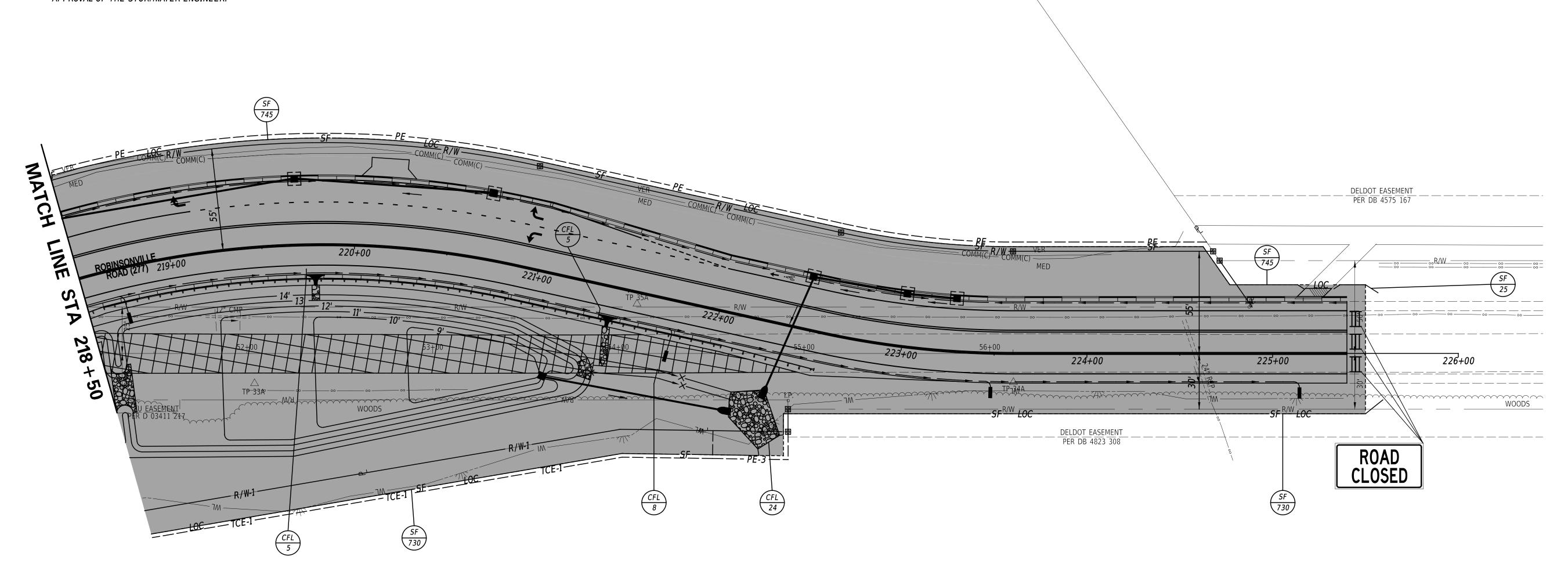
SEQUENCE OF CONSTRUCTION - LOCATION 1

PHASE 1A:

- 3. INSTALL PHASE 1 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 4. CLOSE ROBINSONVILLE ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 100 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 5. CONSTRUCT PROPOSED BMP #1050 PER DRY POND SEQUENCE OF CONSTRUCTION AND INSTALL PHASE 1A DRAINAGE STRUCTURES PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTION PER PLAN OR AS DIRECTED BY THE ENGINEER. INSTALL PERMANENT SIGNING ON ROBINSONVILLE ROAD. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 1B:

- 6. INSTALL DI-10 AND P-10 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. INSTALL NEW SIGNAL POLES AND MAST ARMS.
- 7. REMOVE PHASE 1 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.



12-SEP-2023 09:56 \NDOTFS08\cadd\Active_Designs\SUSSEX\024\road\T201200902\Plans\Angola Road\CS (

ADDENDA / REVISIONS

SCALE

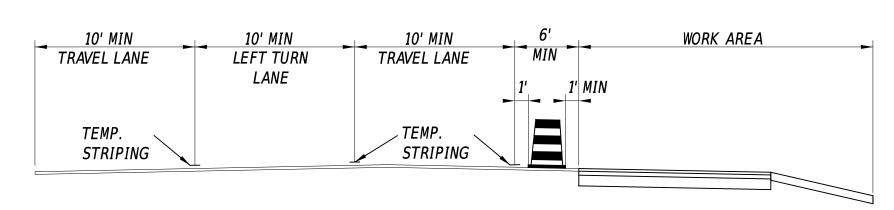
0 30 60

FEET

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A	
T202400002		14// \	l
T202400902	DECICNED DV.	W. NIALIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 1



PHASE 2A: SR 24

STATION 100+50 TO STATION 121+25 $L = TAPER\ LENGTH = 350'$ $L = W \times S$, WHERE $W = LANE\ SHIFT = 7'\ AND\ S = OPERATING\ SPEED = 50\ MPH$

ADDENDA / REVISIONS

SEQUENCE OF CONSTRUCTION

PHASE 2A:

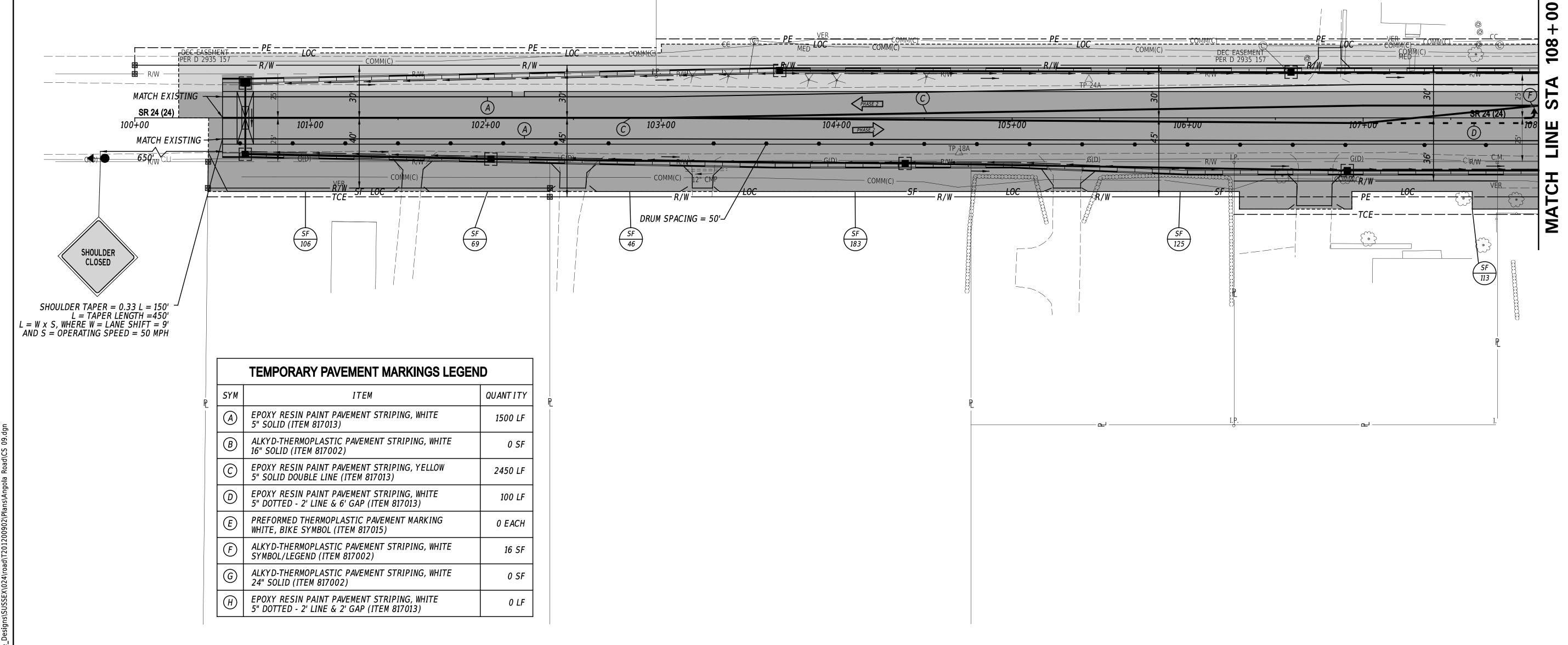
- 8. INSTALL PHASE 2 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 9. CLOSE ANGOLA ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 90 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 10. INSTALL PHASE 2A DRAINAGE STRUCTURES INCLUDING DITCH ALONG NB SR 24. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB SUSSEX COUNTY'S EXISTING FORCE MAIN. INSTALL PROPOSED CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTIONS PER PLAN OR AS DIRECTED BY THE ENGINEER. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. NOTE: NO HEAVY EQUIPMENT ALLOWED ON PARCEL 3-R NEAR SEPTIC DRAIN FIELD.

PHASE 2B:

11. INSTALL DI-2, P-1, AND P-32 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. CLOSE SB SR 24 SHOULDER. INSTALL DITCH ALONG SB SR 24. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 2C:

- 12. MAINTAIN TRAFFIC ON SR 24 USING TA-10 AND TA-17. MILL AND OVERLAY SR 24 PER PLAN. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.
- 13. CONVERT BMP TO FINAL DESIGN FROM SEDIMENT BASIN. REMOVE PHASE 2 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.



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SCALE
30 60 90
FEET

HSIP SC, SR24 AT ANGOLA ROAD

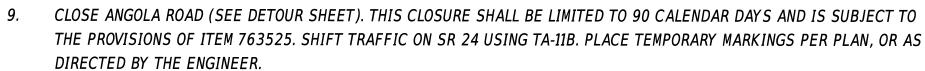
CONTRACT	BRIDGE NO.	N/A
T202400902	DECICNED DV.	W MALIMANI
COUNTY	DESIGNED BY:	W. NAUMAN
SUSSEX	CHECKED BY:	J. GAINES

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2 PD SHEET NO.

SEQUENCE OF CONSTRUCTION

PHASE 2A:

INSTALL PHASE 2 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.



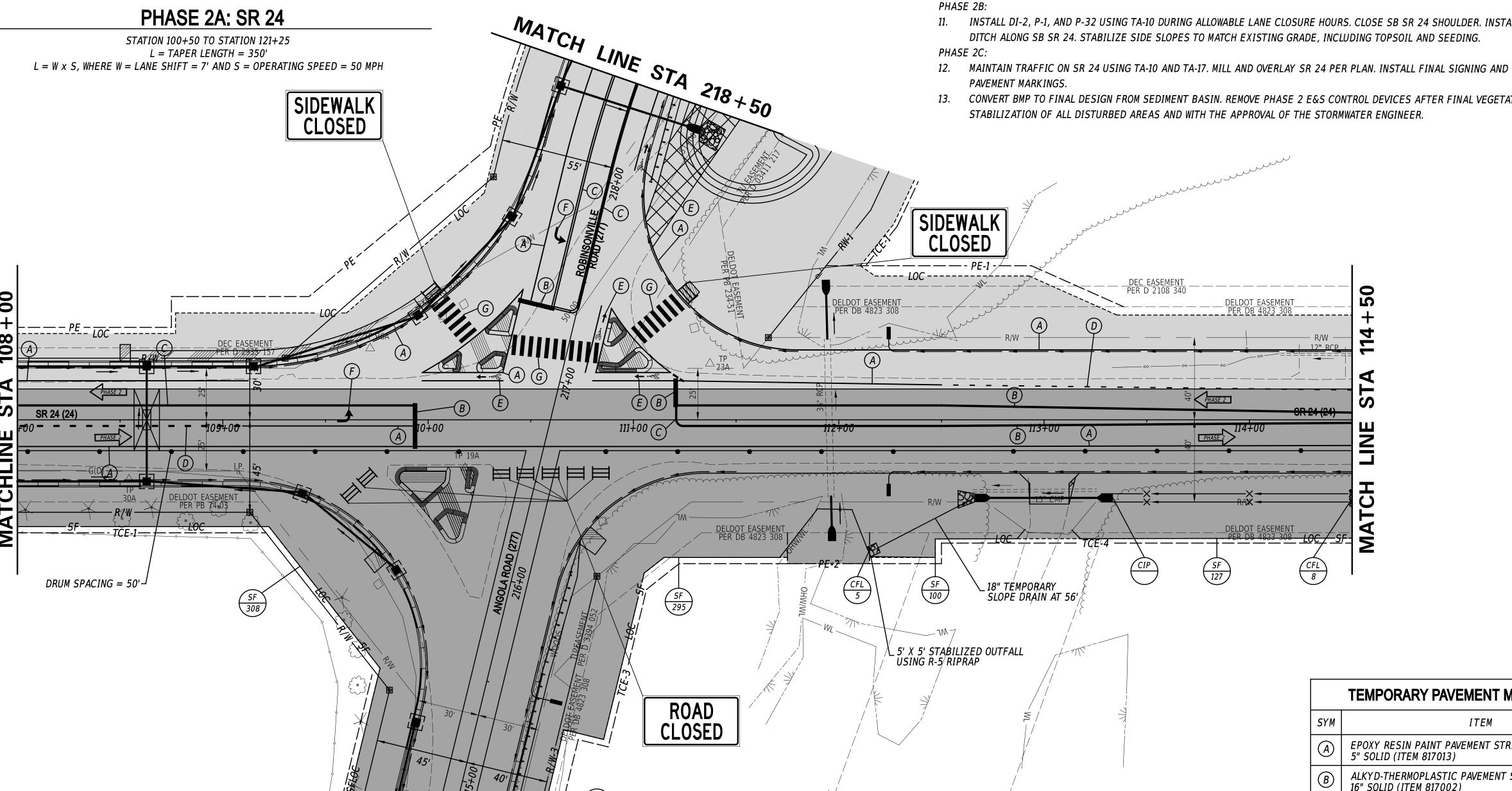
10. INSTALL PHASE 2A DRAINAGE STRUCTURES INCLUDING DITCH ALONG NB SR 24. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB SUSSEX COUNTY'S EXISTING FORCE MAIN. INSTALL PROPOSED CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTIONS PER PLAN OR AS DIRECTED BY THE ENGINEER. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. NOTE: NO HEAVY EQUIPMENT ALLOWED ON PARCEL 3-R NEAR SEPTIC DRAIN FIELD.

PHASE 2B:

11. INSTALL DI-2, P-1, AND P-32 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. CLOSE SB SR 24 SHOULDER. INSTALL DITCH ALONG SB SR 24. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PAVEMENT MARKINGS.

13. CONVERT BMP TO FINAL DESIGN FROM SEDIMENT BASIN. REMOVE PHASE 2 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE



	TEMPORARY PAVEMENT MARKINGS LEGE	ND
SYM	ITEM	QUANT IT
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	2310 Li
B	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	74 SI
<u>C</u>	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 817013)	2252 L
D	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 817013)	310 L
E	PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (ITEM 817015)	4 EACI
F	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	31 Si
G	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	480 51
H	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 2' GAP (ITEM 817013)	0 Li

ADDENDA / REVISIONS

MATCH LINE STA 214+50

HSIP SC, SR24 AT ANGOLA ROAD

			_
CONTRACT	BRIDGE NO.	N/A	
T202400002	51115 62 1161	14// \	
T202400902	DECICNED DV.	AM BLALIBAANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2 SHEET NO.

10' MIN LEFT TURN

LANE

TRAVEL LANE

STRIPING

PHASE 2A: SR 24

TRAVEL LANE

TEMP.

STRIPING

WORK AREA

PHASE 2A: SR 24

STATION 100+50 TO STATION 121+25 L = TAPER LENGTH = 350'

 $L = W \times S$, WHERE W = LANE SHIFT = 7' AND S = OPERATING SPEED = 50 MPH

SEQUENCE OF CONSTRUCTION

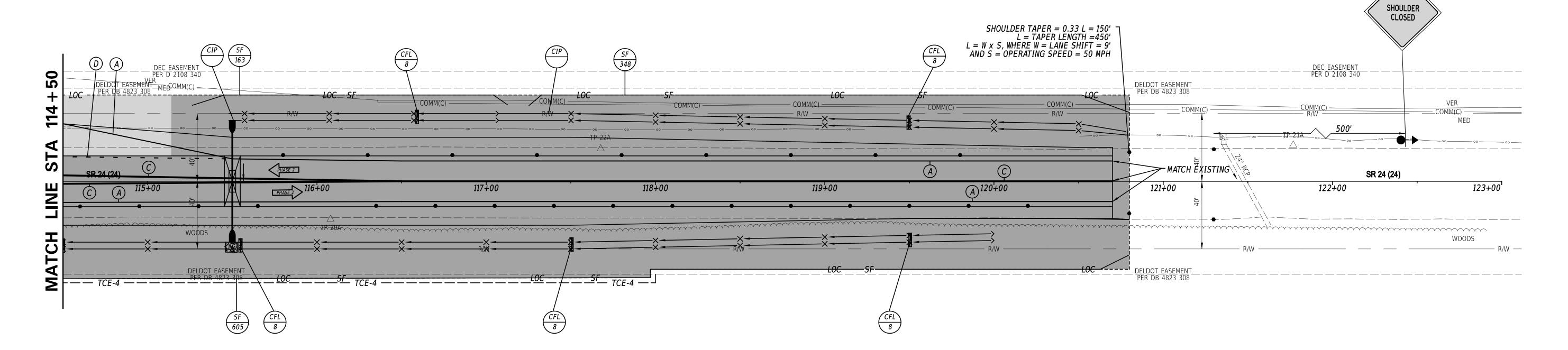
PHASE 2A:

PHASE 2B:

HSIP SC, SR24 AT ANGOLA ROAD

- INSTALL PHASE 2 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- CLOSE ANGOLA ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 90 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 10. INSTALL PHASE 2A DRAINAGE STRUCTURES INCLUDING DITCH ALONG NB SR 24. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB SUSSEX COUNTY'S EXISTING FORCE MAIN. INSTALL PROPOSED CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTIONS PER PLAN OR AS DIRECTED BY THE ENGINEER. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. NOTE: NO HEAVY EQUIPMENT ALLOWED ON PARCEL 3-R NEAR SEPTIC DRAIN FIELD.
- 11. INSTALL DI-2, P-1, AND P-32 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. CLOSE SB SR 24 SHOULDER. INSTALL DITCH ALONG SB SR 24. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. PHASE 2C:
- 12. MAINTAIN TRAFFIC ON SR 24 USING TA-10 AND TA-17. MILL AND OVERLAY SR 24 PER PLAN. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.

13. CONVERT BMP TO FINAL DESIGN FROM SEDIMENT BASIN. REMOVE PHASE 2 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.



	TEMPORARY PAVEMENT MARKINGS LEGEND		
SYM	ITEM	QUANT ITY	
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	1240 LF	
В	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	0 SF	
\bigcirc	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 817013)	1600 LF	
<u>a</u>	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 817013)	100 LF	
E	PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (ITEM 817015)	0 EACH	
F	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	0 SF	
G	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	0 SF	
(H)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 2' GAP (ITEM 817013)	0 LF	

ADDENDA / REVISIONS			
		SCALE	
	0	30	60
		FEET	
	I		

CONTRACT	BRIDGE NO.	N/A	
T202400902		14// \	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

SEQUENCE OF CONSTRUCTION

PHASE 2A:

- 8. INSTALL PHASE 2 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 9. CLOSE ANGOLA ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 90 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 10. INSTALL PHASE 2A DRAINAGE STRUCTURES INCLUDING DITCH ALONG NB SR 24. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB SUSSEX COUNTY'S EXISTING FORCE MAIN. INSTALL PROPOSED CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTIONS PER PLAN OR AS DIRECTED BY THE ENGINEER. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. NOTE: NO HEAVY EQUIPMENT ALLOWED ON PARCEL 3-R NEAR SEPTIC DRAIN FIELD.

PHASE 2B:

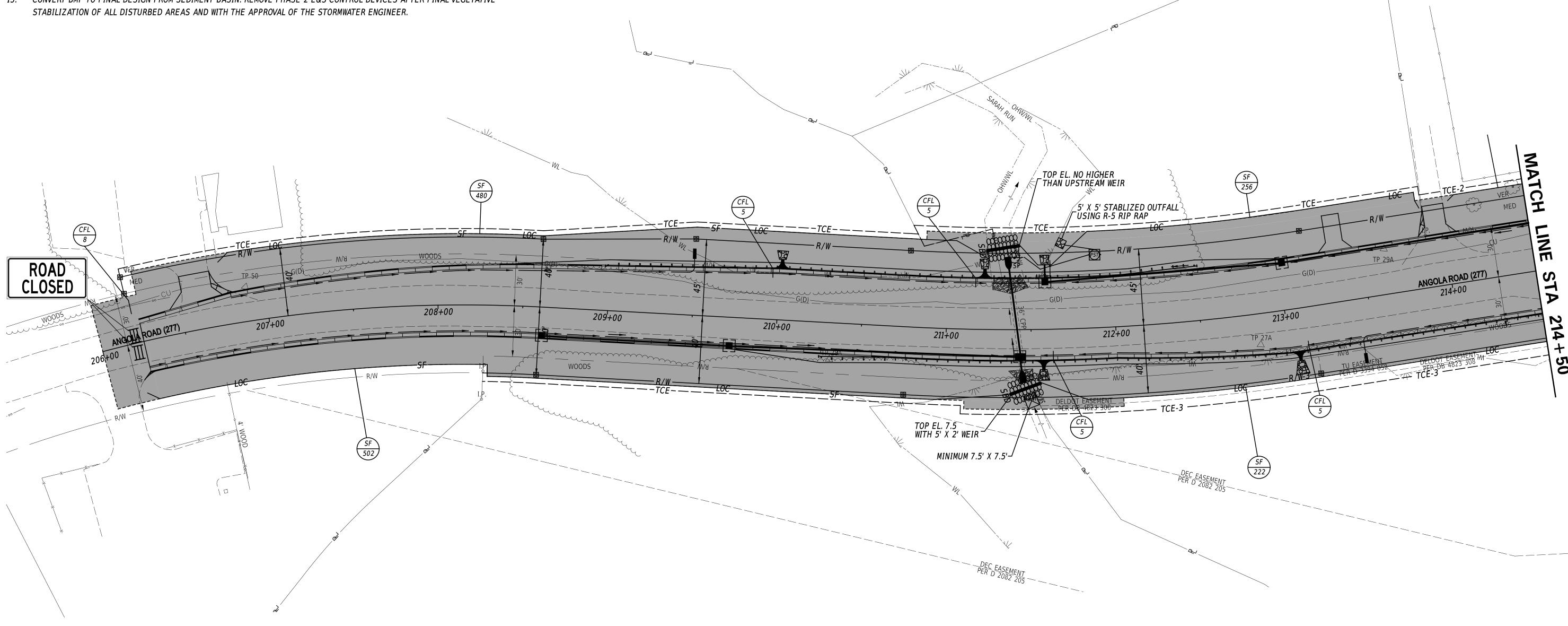
11. INSTALL DI-2, P-1, AND P-32 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. CLOSE SB SR 24 SHOULDER. INSTALL DITCH ALONG SB SR 24. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 2C:

- 12. MAINTAIN TRAFFIC ON SR 24 USING TA-10 AND TA-17. MILL AND OVERLAY SR 24 PER PLAN. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.
- 13. CONVERT BMP TO FINAL DESIGN FROM SEDIMENT BASIN. REMOVE PHASE 2 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE

STREAM DIVERSION:

- INSTALL SILT FENCE EXCEPT CONNECTIONS TO SANDBAG DIKES.
- INSTALL AN 8' X 8' STILLING WELL UPSTREAM OF THE PROPOSED SANDBAG DIKE.
- CONSTRUCT THE SANDBAG DIKES PER PLAN OR AS DIRECTED BY THE ENGINEER. CONNECT SILT FENCE TO SANDBAG DIKES TO COMPLETELY ENCLOSE THE WORK AREA. THE ENCLOSED AREA SHALL BE KEPT CLEAR OF DEBRIS AND OBSTRUCTIONS AT THE END OF EACH WORKDAY.
- 4. INSTALL SUMP PIT AND PORTABLE SEDIMENT TANK AS A SEDIMENT TRAPPING DEVICE. DEWATER THE WORK AREA IN ACCORDANCE WITH SECTION 906 OF THE DELDOT STANDARD SPECIFICATIONS. DISCHARGE THE CLEAN EFFLUENT AT A STABILIZED OUTFALL AS DIRECTED BY THE ENGINEER.
- 5. REMOVE EXISTING PIPE. PLACE P-26 AND P-27. PLACE FES-10 AND FES-11. CONSTRUCT AND STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE INCLUDING TOPSOILING AND SEEDING.
- 6. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL AND STREAM DIVERSION DEVICES, INCLUDING THE STABILIZED OUTFALL AS DIRECTED THE ENGINEER. RESTORE THE STREAM TO EXISTING CONDITIONS AS OUTLINED IN THE ENVIRONMENTAL COMPLIANCE NOTES AND AS DIRECTED BY THE ENGINEER.



HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT	BRIDGE NO.	N/A	
T202400902	DIMEGE NOT	IVA	
	DECICNED DV.	W NATIMANI	
COUNTY	DESIGNED BY:	W. NAUMAN	
SUSSEX	CHECKED BY:	J. GAINES	

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2

PHASE 2A:

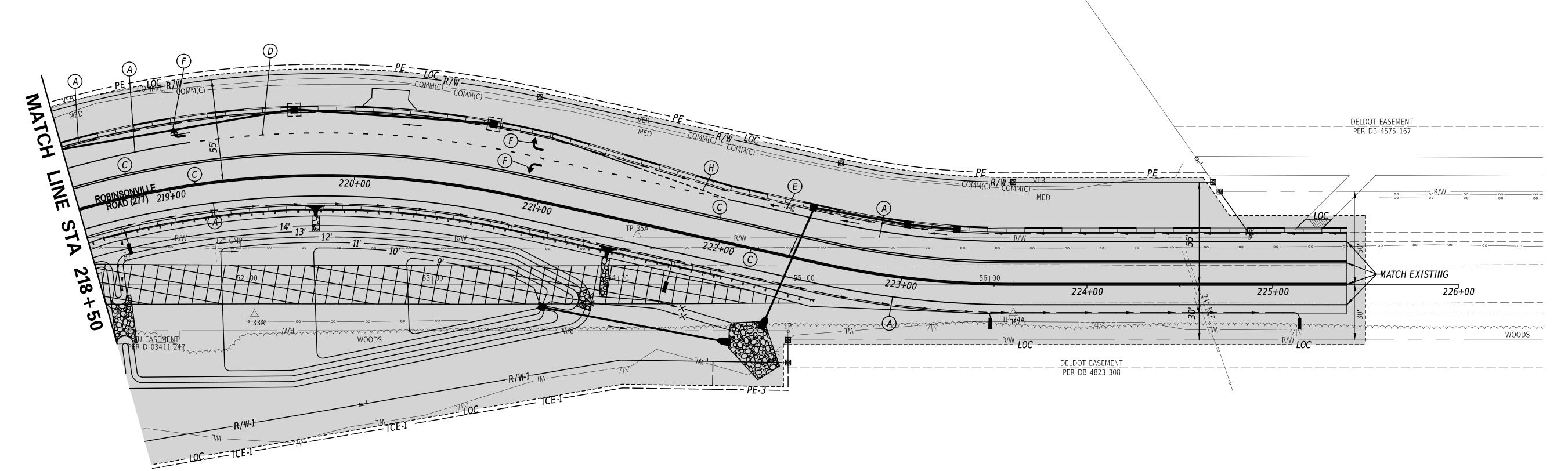
- 8. INSTALL PHASE 2 E&S MEASURES AS SHOWN PER PLAN OR AS DIRECTED BY ENGINEER.
- 9. CLOSE ANGOLA ROAD (SEE DETOUR SHEET). THIS CLOSURE SHALL BE LIMITED TO 90 CALENDAR DAYS AND IS SUBJECT TO THE PROVISIONS OF ITEM 763525. SHIFT TRAFFIC ON SR 24 USING TA-11B. PLACE TEMPORARY MARKINGS PER PLAN, OR AS DIRECTED BY THE ENGINEER.
- 10. INSTALL PHASE 2A DRAINAGE STRUCTURES INCLUDING DITCH ALONG NB SR 24. SPECIAL CARE SHALL BE TAKEN NOT TO DISTURB SUSSEX COUNTY'S EXISTING FORCE MAIN. INSTALL PROPOSED CURB PER PLAN. CONSTRUCT FULL DEPTH PAVEMENT SECTIONS PER PLAN OR AS DIRECTED BY THE ENGINEER. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING. NOTE: NO HEAVY EQUIPMENT ALLOWED ON PARCEL 3-R NEAR SEPTIC DRAIN FIELD.

PHASE 2B:

11. INSTALL DI-2, P-1, AND P-32 USING TA-10 DURING ALLOWABLE LANE CLOSURE HOURS. CLOSE SB SR 24 SHOULDER. INSTALL DITCH ALONG SB SR 24. STABILIZE SIDE SLOPES TO MATCH EXISTING GRADE, INCLUDING TOPSOIL AND SEEDING.

PHASE 2C:

- 12. MAINTAIN TRAFFIC ON SR 24 USING TA-10 AND TA-17. MILL AND OVERLAY SR 24 PER PLAN. INSTALL FINAL SIGNING AND PAVEMENT MARKINGS.
- 13. CONVERT BMP TO FINAL DESIGN FROM SEDIMENT BASIN. REMOVE PHASE 2 E&S CONTROL DEVICES AFTER FINAL VEGETATIVE STABILIZATION OF ALL DISTURBED AREAS AND WITH THE APPROVAL OF THE STORMWATER ENGINEER.

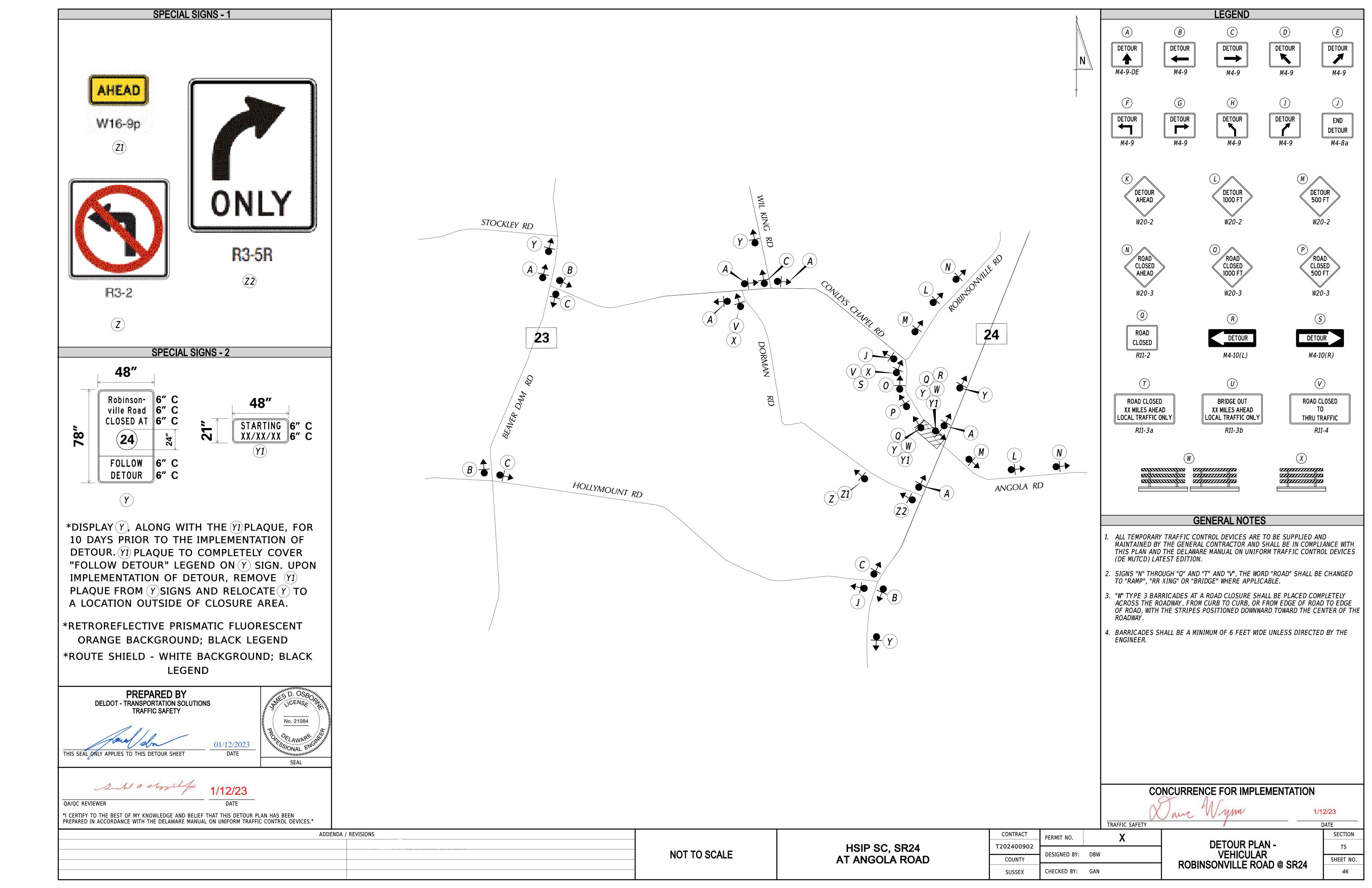


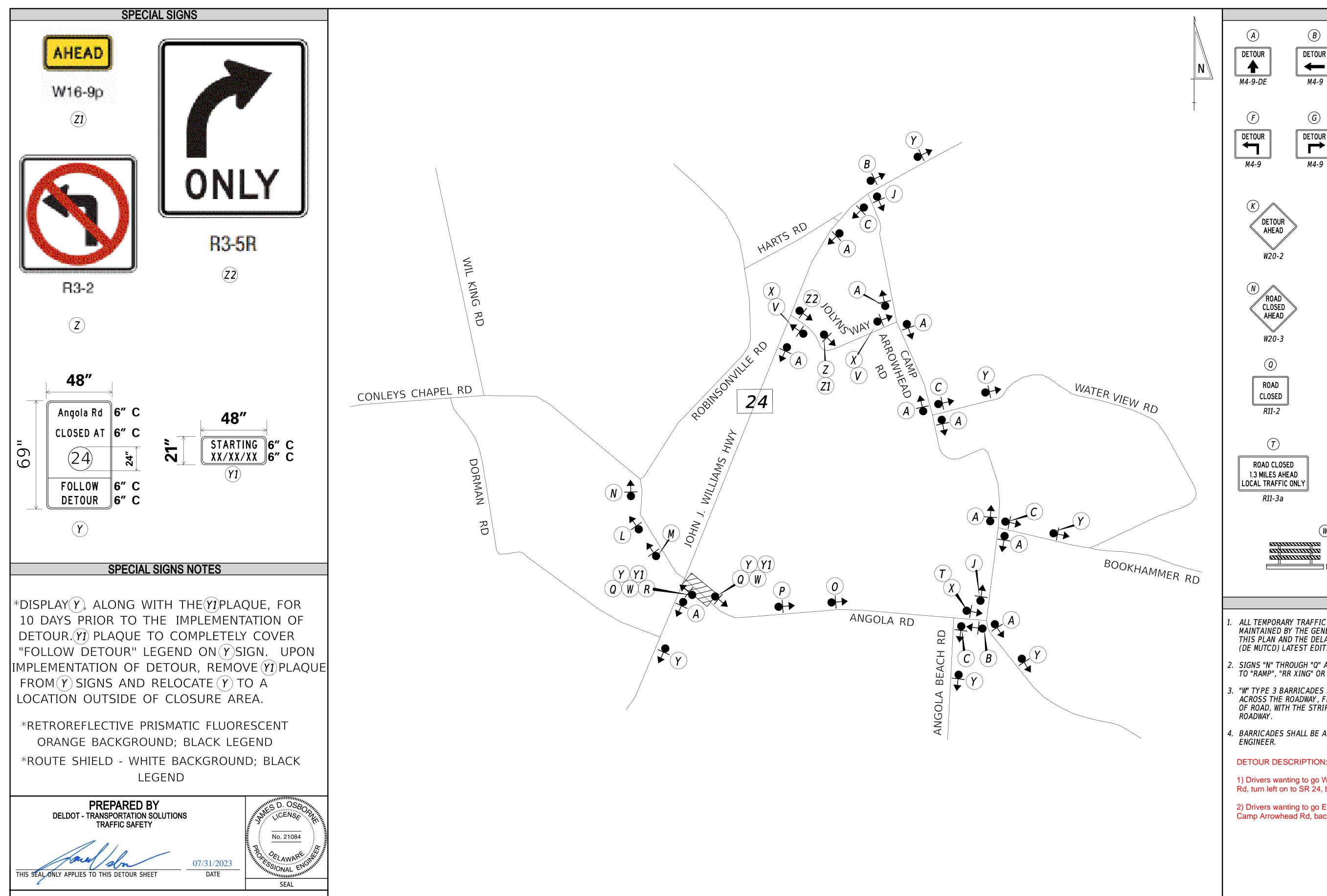
	TEMPORARY PAVEMENT MARKINGS LEGEND								
SYM	ITEM	QUANT ITY							
A	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" SOLID (ITEM 817013)	1523 LF							
В	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 16" SOLID (ITEM 817002)	0 SF							
(0)	EPOXY RESIN PAINT PAVEMENT STRIPING, YELLOW 5" SOLID DOUBLE LINE (ITEM 817013)	2262 LF							
(g)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 6' GAP (ITEM 817013)	295 LF							
E	PREFORMED THERMOPLASTIC PAVEMENT MARKING WHITE, BIKE SYMBOL (ITEM 817015)	1 EACH							
F	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE SYMBOL/LEGEND (ITEM 817002)	47 SF							
G	ALKYD-THERMOPLASTIC PAVEMENT STRIPING, WHITE 24" SOLID (ITEM 817002)	0 SF							
(H)	EPOXY RESIN PAINT PAVEMENT STRIPING, WHITE 5" DOTTED - 2' LINE & 2' GAP (ITEM 817013)	50 LF							

ADDENDA / REVISIONS				
		1	SCALE	
		0	30	60
			FEET	
		1		

HSIP SC, SR24 AT ANGOLA ROAD	CONTRACT	BRIDGE NO.	N/A
	T202400902 COUNTY	DESIGNED BY:	W. NAUMAN
	SUSSEX	CHECKED BY:	J. GAINES

CONSTRUCTION PHASING, M.O.T., AND EROSION CONTROL PLAN - PHASE 2





QA/QC REVIEWER

"I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS DETOUR PLAN HAS BEEN PREPARED IN ACCORDANCE WITH THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

ADDENDA / REVISIONS

DETOUR DETOUR DETOUR END DETOUR M4-9 M4-8a MDETOUR 500 FT DETOUR 1000 FT ROAD CLOSED 500 FT ROAD CLOSED 1000 FT DETOUR DETOUR M4-10(L)M4-10(R) \overline{V} **BRIDGE OUT ROAD CLOSED** XX MILES AHEAD LOCAL TRAFFIC ONLY THRU TRAFFIC R11-3b **GENERAL NOTES** ALL TEMPORARY TRAFFIC CONTROL DEVICES ARE TO BE SUPPLIED AND MAINTAINED BY THE GENERAL CONTRACTOR AND SHALL BE IN COMPLIANCE WITH THIS PLAN AND THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (DE MUTCD) LATEST EDITION. . SIGNS "N" THROUGH "Q" AND "T" AND "V", THE WORD "ROAD" SHALL BE CHANGED TO "RAMP", "RR XING" OR "BRIDGE" WHERE APPLICABLE. 3. "W" TYPE 3 BARRICADES AT A ROAD CLOSURE SHALL BE PLACED COMPLETELY ACROSS THE ROADWAY, FROM CURB TO CURB, OR FROM EDGE OF ROAD TO EDGE OF ROAD, WITH THE STRIPES POSITIONED DOWNWARD TOWARD THE CENTER OF THE BARRICADES SHALL BE A MINIMUM OF 6 FEET WIDE UNLESS DIRECTED BY THE **DETOUR DESCRIPTION:** 1) Drivers wanting to go West on Angola Rd will go North on Camp Arrowhead Rd, turn left on to SR 24, back to Angola Rd. 2) Drivers wanting to go East on Angola Rd will go North on SR 24, turn right on Camp Arrowhead Rd, back to Angola Rd.

LEGEND

DETOUR

 \rightarrow

DETOUR

M4-9

DETOUR

M4-9

NOT TO SCALE

HSIP SC, SR24 AT ANGOLA ROAD CONTRACT
PERMIT NO.

T202400902

COUNTY

SUSSEX

CHECKED BY: GAN

TRAFFIC SAFETY

DETOUR PLAN -VEHICULAR ANGOLA ROAD @ SR24

CONCURRENCE FOR IMPLEMENTATION

SECTION
TRAFFIC
SHEET NO.
47

7/26/2023

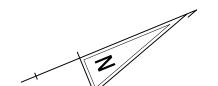
* DENOTES EXISTING SERVICE RUN.

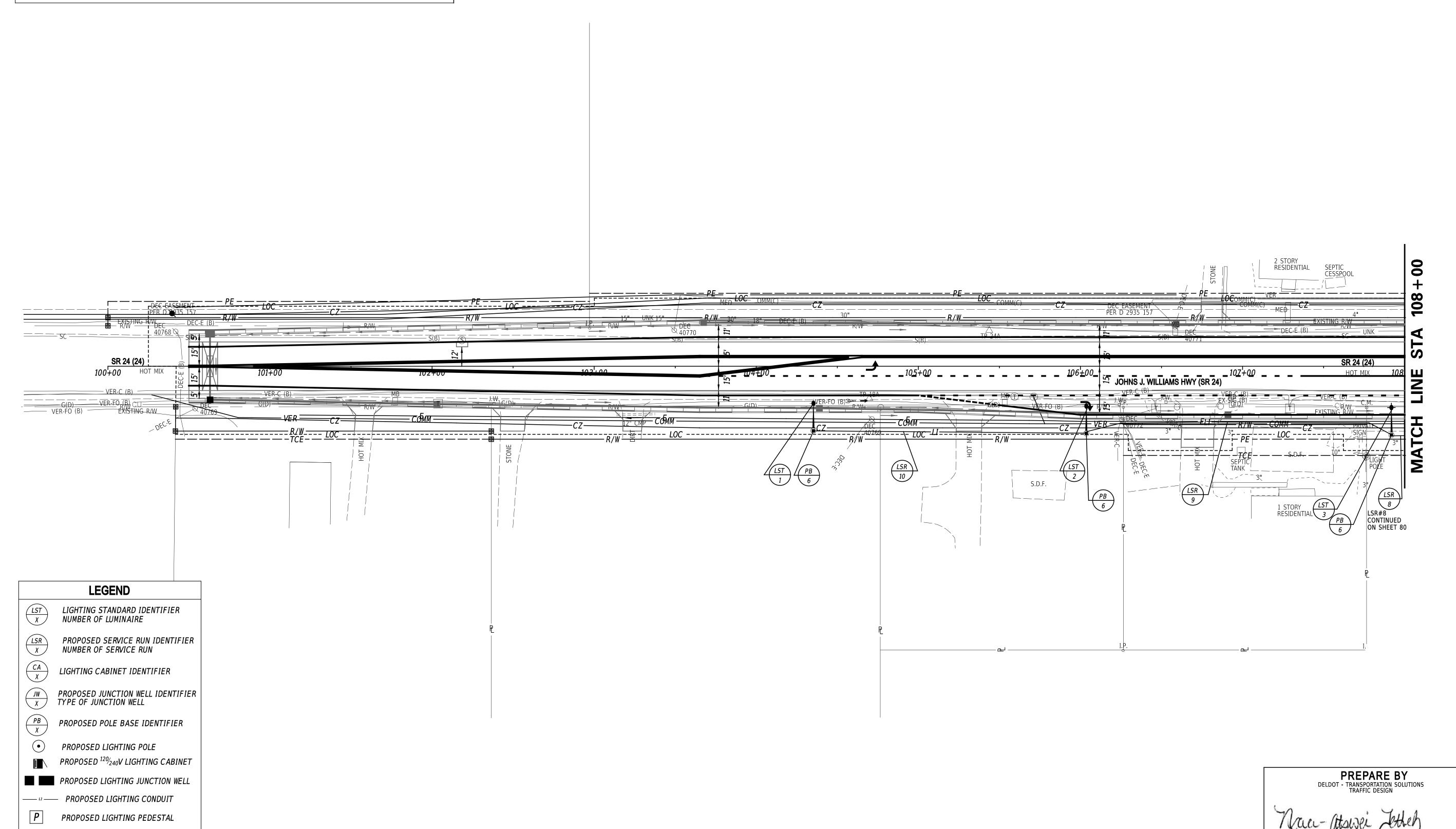
INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE								
NO.	CKT NO.	STATION	OFFSET	MOUNT I NG HE I GHT	ARM	LIGHT STANDARD		
1	A1	104+35.20	40.00'	30'	15'	145 WATT LED, TYPE 3		
2	A2	106+03.62	41.00'	30'	15'	145 WATT LED, TYPE 3		
3	A1	107+91.81	42.00'	30'	15'	145 WATT LED, TYPE 3		

NOTE

- 1. PROJECT TO PROVIDE ELECTRIC SERVICE ON PEDESTAL WITH 100 AMP 120/240 SINGLE PHASE 3 WIRE ELECTRICAL SERVICE AS SHOWN ON DETAIL SHEET.
- 2. THE PROPOSED DELDOT LIGHTING STANDARD LUMINAIRES SHALL BE PHILLIPS ROADFOCUS 145 WATT LED, TYPE 3 HORIZONTAL DISTRIBUTION COBRA HEAD STYLE.
- 3. LIGHTING STANDARD STATIONS AND OFFSETS ARE TO THE CENTER OF THE POLE BASE.





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→ PROPOSED LUMINAIRE

ADDENDA / REVISIONS

SCALE 0 30 60 90 FEET

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT
T202400902
COUNTY

SUSSEX

CHECKED BY: N. TETTEH

LIGHTING PLAN

THIS SEAL APPLIES TO THIS SHEET BEARING THE "TD" SECTION DESIGNATION

SECTION

TD

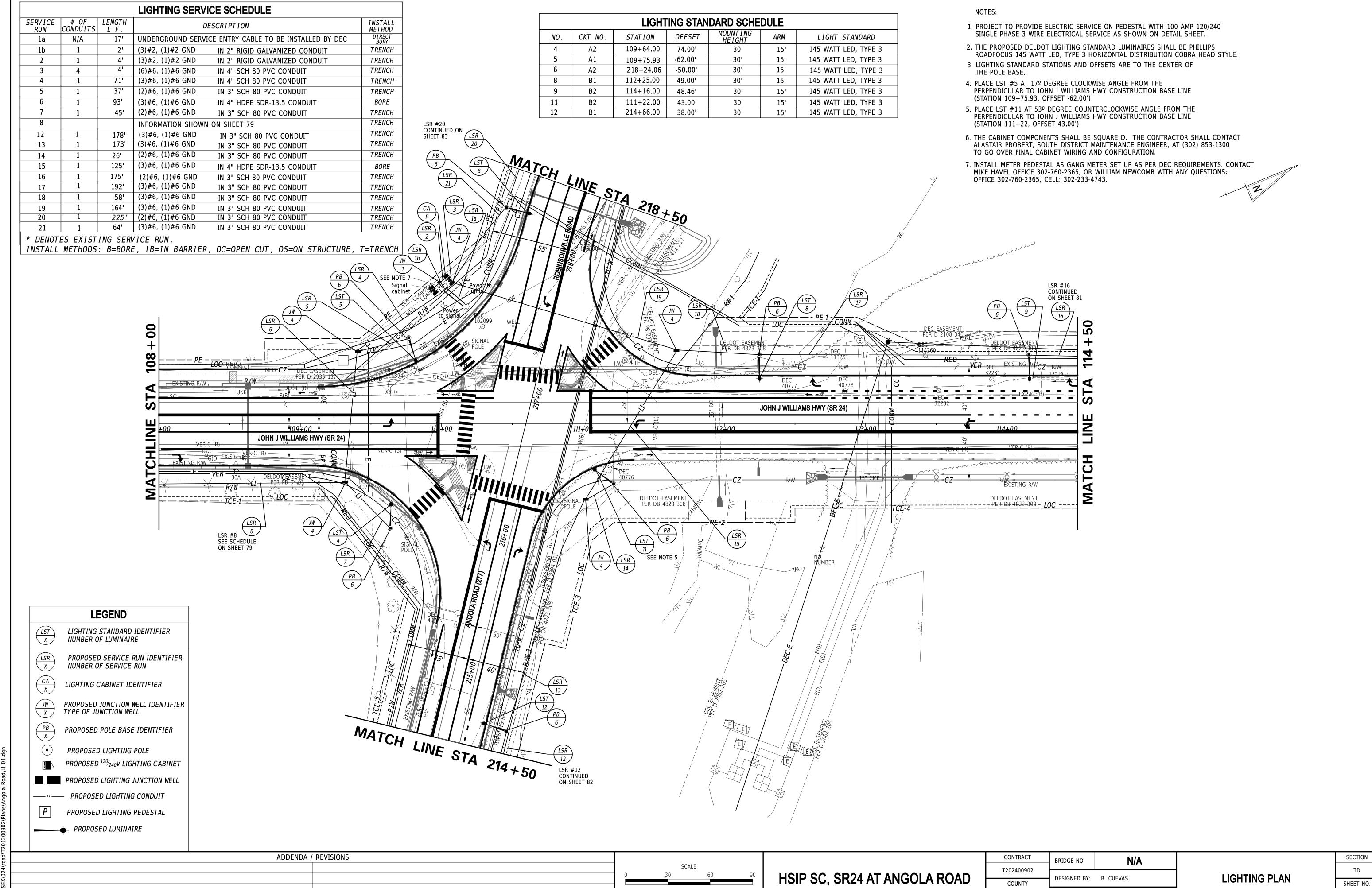
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SEAL

No. 14933

OR AWARES



CHECKED BY: N. TETTEH

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24-JUL-2023 17:20 Y:\SIISSEX\024\road\T2(SERVICE # OF LENGTH DESCRIPTION INSTALL METHOD

16 INFORMATION SHOWN ON SHEET 80 TRENCH

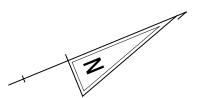
* DENOTES EXISTING SERVICE BUN

* DE	NOTE	S EXISTII	NG SERVIC	CE RUN	•					
I NST	TALL	METHODS:	B=BORE,	IB=IN	BARRIER,	OC=OPEN	CUT,	OS=ON	STRUCTURE,	T=TRENCH

LIGHTING STANDARD SCHEDULE								
NO.	CKT NO.	STATION	OFFSET	MOUNT I NG HE I GHT	ARM	LIGHT STANDARD		
10	B1	115+91.00	-45.00'	30'	15'	145 WATT LED, TYPE 3		

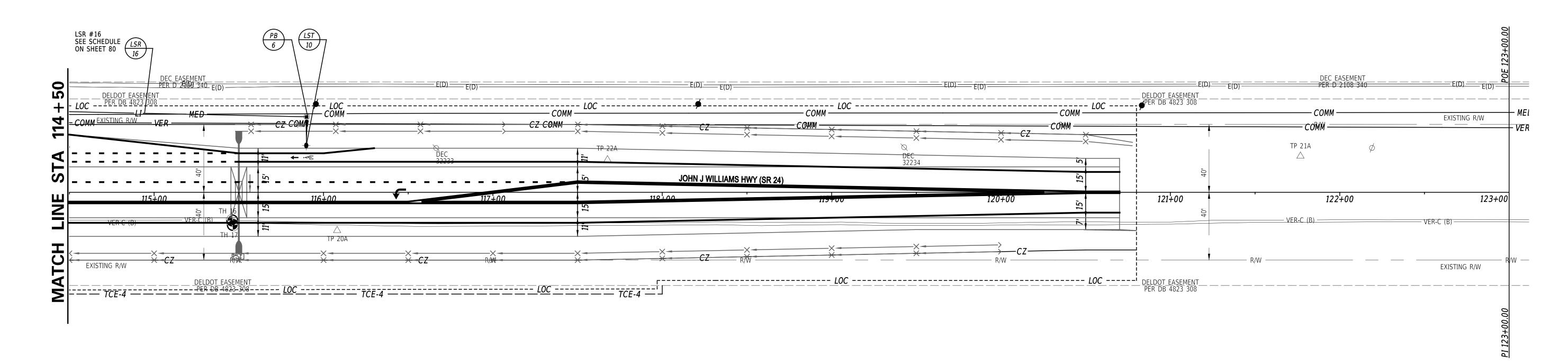
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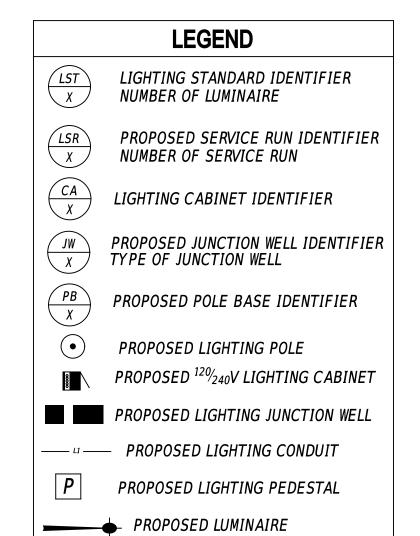
- 1. PROJECT TO PROVIDE ELECTRIC SERVICE ON PEDESTAL WITH 100 AMP 120/240 SINGLE PHASE 3 WIRE ELECTRICAL SERVICE AS SHOWN ON DETAIL SHEET.
- 2. THE PROPOSED DELDOT LIGHTING STANDARD LUMINAIRES SHALL BE PHILLIPS ROADFOCUS 145 WATT LED, TYPE 3 HORIZONTAL DISTRIBUTION COBRA HEAD STYLE.
- 3. LIGHTING STANDARD STATIONS AND OFFSETS ARE TO THE CENTER OF THE POLE BASE.



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234-11.00-49.00 DOUBLE DB LP D 4276 126

ADDENDA / REVISIONS	SCALE		CONTRACT	BRIDGE NO. N/A		SECTION
	0 30 60 90	HSIP SC, SR24 AT ANGOLA ROAD	T202400902 COUNTY	DESIGNED BY: B. CUEVAS	LIGHTING PLAN	SHEET NO.
	FEET		SUSSEX	CHECKED BY: N. TETTEH		50

LIGHTING SERVICE SCHEDULE	LIGHTING STANDARD SCHEDULE	NOTES:	
RUN CONDUITS L.F. INSTA	NO. CKT NO. STATION OFFSET MOUNTING ARM LIGHT STANDARD	 PROJECT TO PROVIDE ELECTRIC SERVICE ON PEDESTAL WITH 100 AMP 120/240 SINGLE PHASE 3 WIRE ELECTRICAL SERVICE AS SHOWN ON DETAIL SHEET. 	
11 1 187' (2)#6, (1)#6 GND IN 3" SCH 80 PVC CONDUIT TRENC 12 INFORMATION SHOWN ON SHEET 80 TRENC		2. THE PROPOSED DELDOT LIGHTING STANDARD LUMINAIRES SHALL BE PHILLIPS ROADFOCUS 145 WATT LED, TYPE 3 HORIZONTAL DISTRIBUTION COBRA HEAD STYLE.	
DENOTES EXISTING SERVICE RUN.		3. LIGHTING STANDARD STATIONS AND OFFSETS ARE TO THE CENTER OF THE POLE BASE.	
ISTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TREN	CH CHICAGO CONTRACTOR		
LEGEND			
LIGHTING STANDARD IDENTIFIER NUMBER OF LUMINAIRE			
PROPOSED SERVICE RUN IDENTIFIER NUMBER OF SERVICE RUN			
LIGHTING CABINET IDENTIFIER			
	B		
PROPOSED JUNCTION WELL IDENTIFIER TYPE OF JUNCTION WELL			
PROPOSED POLE BASE IDENTIFIER			
PROPOSED LIGHTING POLE			PL
PROPOSED 120/240V LIGHTING CABINET PROPOSED LIGHTING JUNCTION WELL			
PROPOSED LIGHTING JUNCTION WELL PROPOSED LIGHTING CONDUIT			
PROPOSED LIGHTING PEDESTAL			
PROPOSED LUMINAIRE	R.		20
		~ -70	ic - 1 _ TCE-2
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© DEC 32226			VER EXISTING IV.
	R/W CZ	R/W MED VER IP 29A	S
MED. G(D)	TH 18A		
EXISTING R/W MM 2 208+0		MED-C (B) TIL 10B 20 (Cd) (Cd) (Cd) (Cd) (Cd) (Cd) (Cd) (Cd)	214+00 S(A) SC
EXISTINO 208+(209'+00 TH 304 210'+00	213+00 S(A)	214+00 SC SC VER-C W EXISTING R/W
VERO MED-C (B) TH 301	TH 303 TH 302 W(A) TH 21A TH 21A TH 21A	211+00 TH 317A TH 306 H-21C TH 307 TH 307 TH 307 TH 307	EXISTING EXISTING EXISTING EXISTING
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EXISTING RIW	14	PB 6 1	ON SHELL OU
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ADDENDA / DEVICTORS	<u> </u>	CONTRACT	ı
ADDENDA / REVISIONS	SCALE	CONTRACT BRIDGE NO. N/A	
		SC, SR24 AT ANGOLA ROAD T202400902 COUNTY DESIGNED BY: B. CUEVAS	LIGHTING PLAN

CHECKED BY: N. TETTEH

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SERVICE # OF CONDUITS LENGTH L.F. DESCRIPTION INSTALL METHOD

20 INFORMATION SHOWN ON SHEET 80 TRENCH

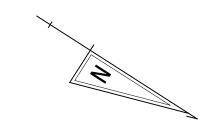
* DENOTES EXISTING SERVICE RUN.

INSTALL METHODS: B=BORE, IB=IN BARRIER, OC=OPEN CUT, OS=ON STRUCTURE, T=TRENCH

LIGHTING STANDARD SCHEDULE								
NO.	CKT NO.	STATION	OFFSET	MOUNT I NG HE I GHT	ARM	LIGHT STANDARD		
7	A1	220+30.82	-50.00'	30'	15'	145 WATT LED, TYPE		

NOTES:

- 1. PROJECT TO PROVIDE ELECTRIC SERVICE ON PEDESTAL WITH 100 AMP 120/240 SINGLE PHASE 3 WIRE ELECTRICAL SERVICE AS SHOWN ON DETAIL SHEET.
- THE PROPOSED DELDOT LIGHTING STANDARD LUMINAIRES SHALL BE PHILLIPS ROADFOCUS 145 WATT LED, TYPE 3 HORIZONTAL DISTRIBUTION COBRA HEAD STYLE.
- 3. LIGHTING STANDARD STATIONS AND OFFSETS ARE TO THE CENTER OF THE POLE BASE.



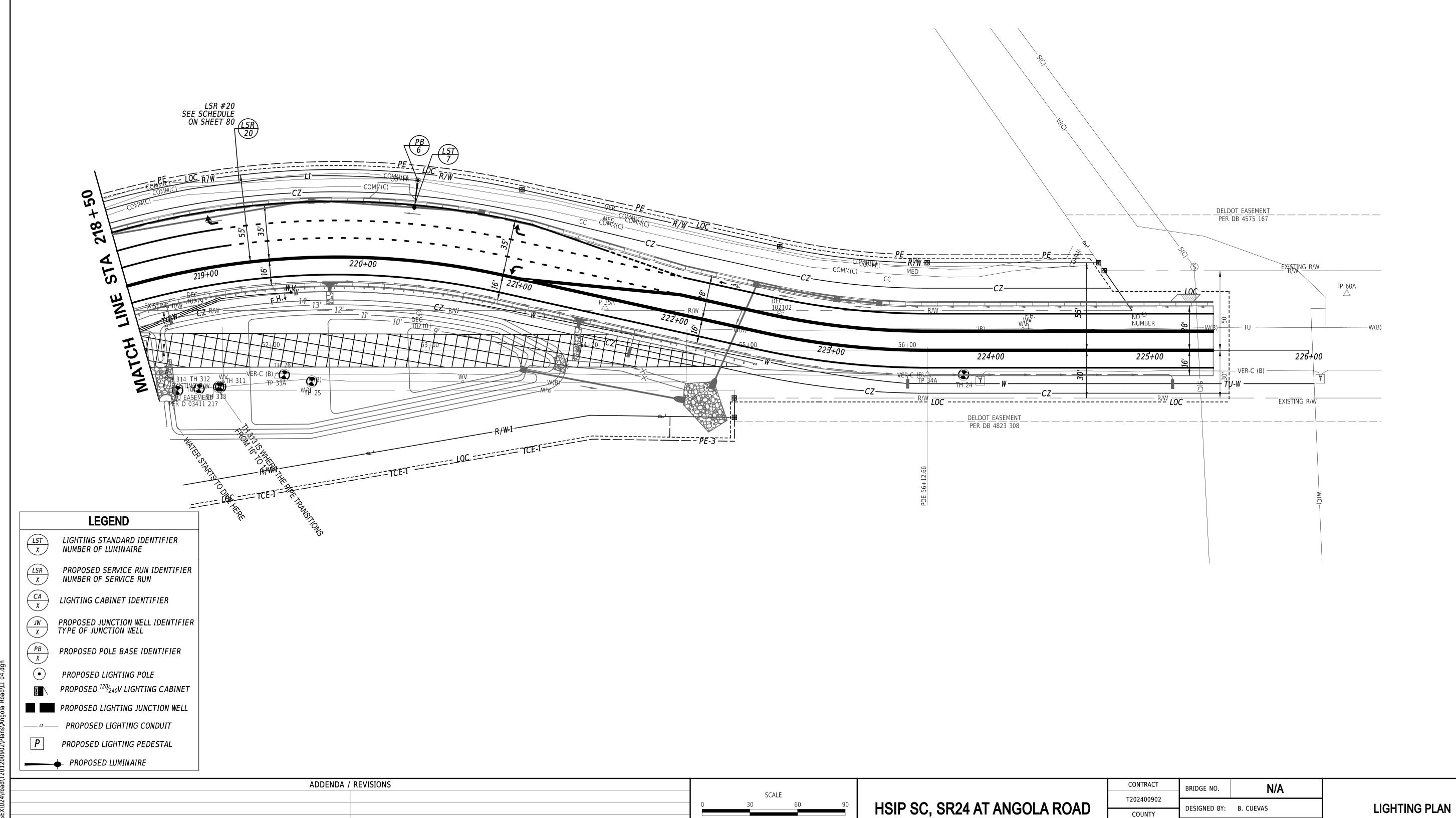
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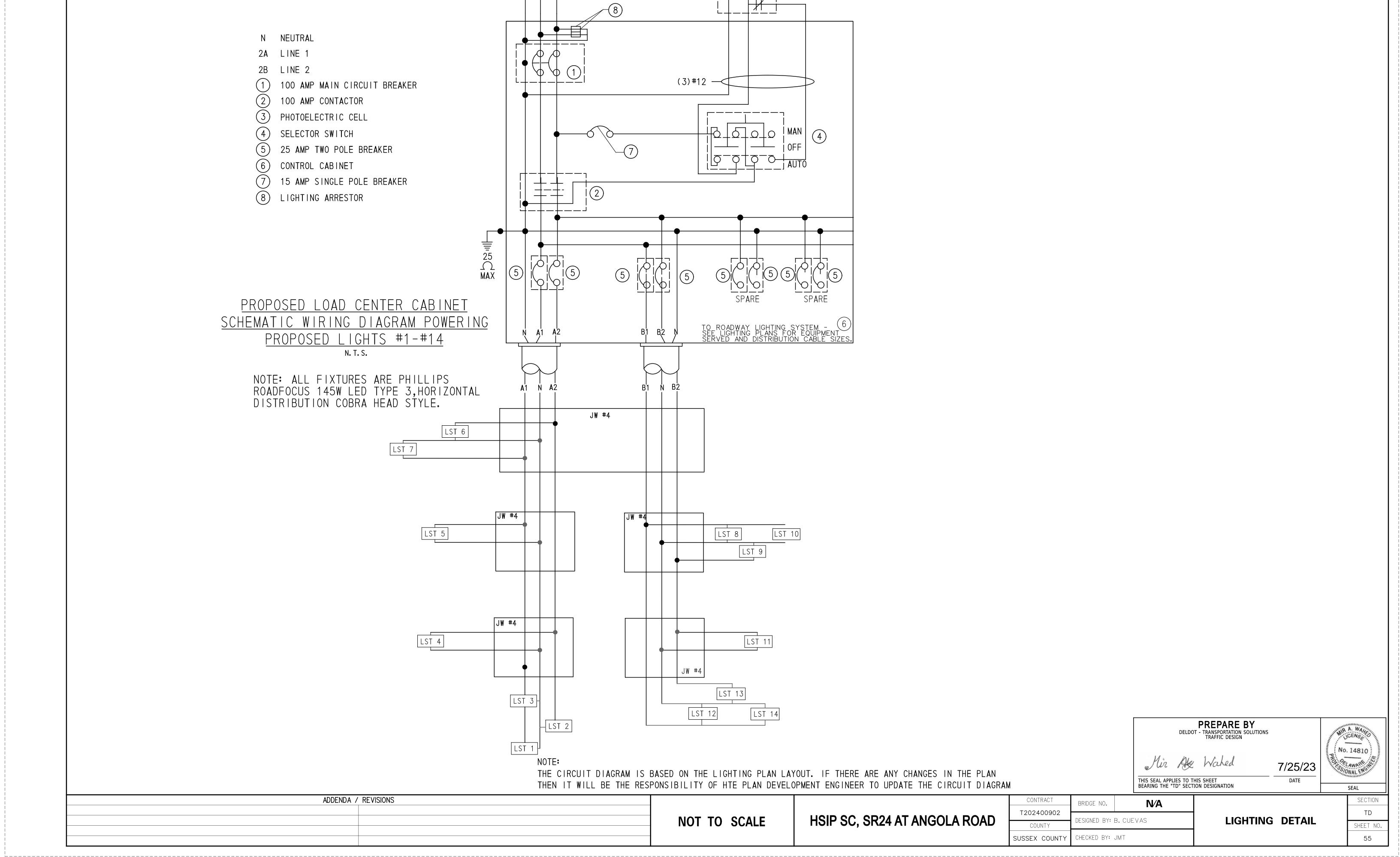
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CHECKED BY: N. TETTEH

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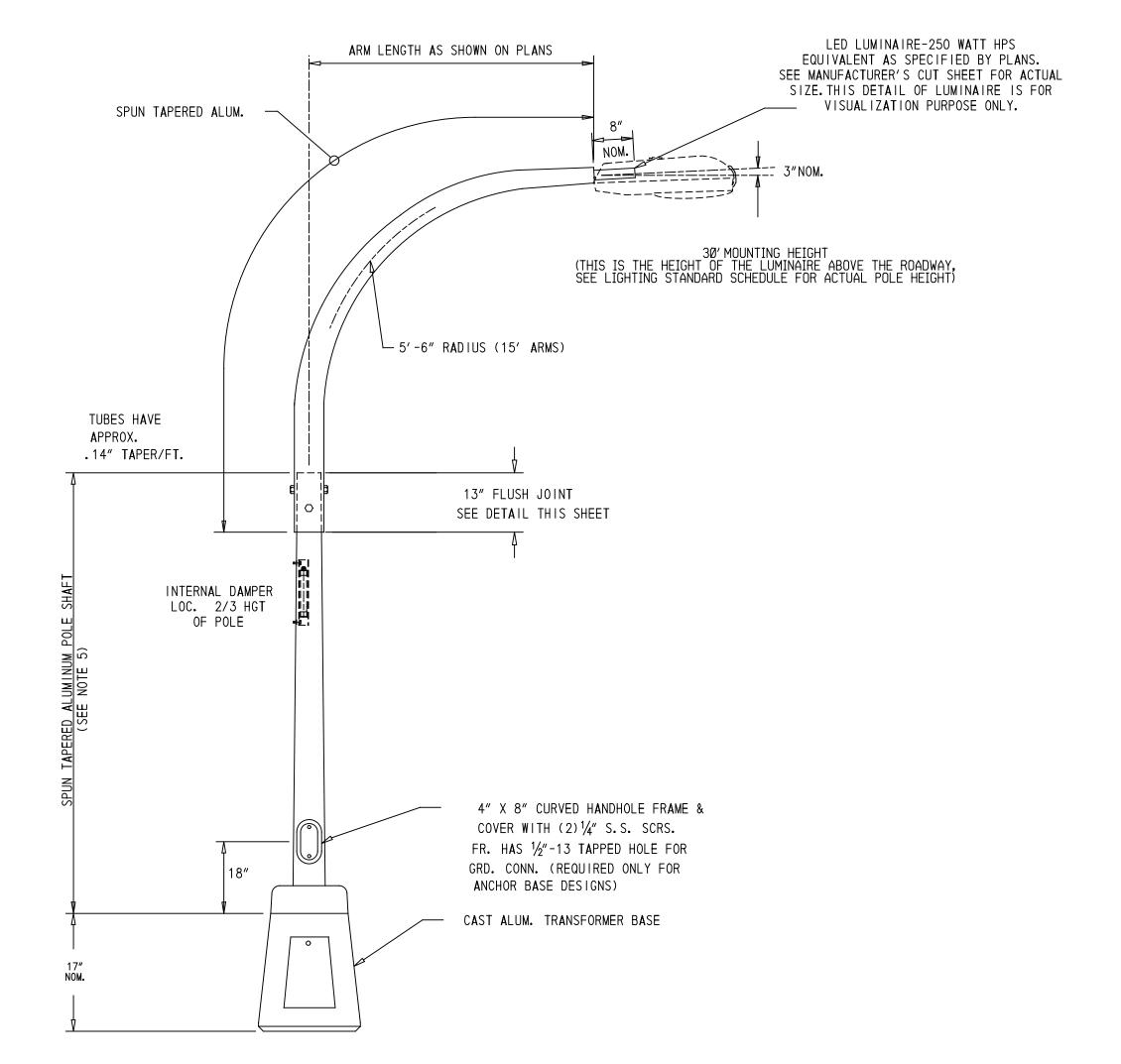




N A B SR24 @ ANGOLA ROAD [

GENERAL NOTES: (LIGHTING)

- 1. CONDUIT RUNS ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL LOCATE THE CONDUIT RUNS IN A MANNER THAT AVOIDS CONFLICTS WITH ALL EXISTING AND PROPOSED FEATURES AS APPROVED BY THE ENGINEER.
- 2. VERIFY ALL DIMENSIONS AND CONDITIONS AT SITE PRIOR TO WORK.
- 3. THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL THE CONTRACTORS INVOLVED ON THIS PROJECT.
 THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE GENERAL SUPERINTENDENT FOR THE LOCATIONS
 OF ALL CONDUIT AND POLE BASES TO ELIMINATE CONSTRUCTION CONFLICTS.
- 4. TERMINATE ALL CONDUITS WHEN ENTERING ENCLOSURES WITH LOCKNUT AND BONDING BUSHINGS. ALL OTHER CONDUITS SHALL BE PROVIDED WITH BONDING BUSHINGS. ALL CONDUITS SHALL BE BONDED WITH THE GROUND WIRE.
- 5. COLOR CODING SHALL BE PROVIDED THROUGHOUT THE ENTIRE NETWORK FOR SERVICE, FEEDER, BRANCH AND CONTROL CONDUCTORS. EACH PHASE SHALL BE AN INDEPENDENT COLOR. CONDUCTORS SHALL HAVE FACTORY IMPREGNATED COLOR THROUGHOUT THEIR ENTIRE LENGTH. PHASE TAPING IS NOT PERMITTED.
- 6. THE CONTRACTOR SHALL NOTIFY DELAWARE ELECTRIC CO-OP TWO WEEKS IN ADVANCE TO ARRANGE FINAL POWER CONNECTIONS. CONTACT: MR. RYAN SHOCLEY, EI, OFFICE 302-349-0723 AND CELL 302-515-4210.
- 7. ALL FUSED CONNECTIONS SHALL BE MADE IN THE POLE BASE, UNLESS OTHERWISE NOTED. SPLICES IN JUNCTION BOXES OR PULL BOXES SHALL NOT BE FUSED EXCEPT AT NEMA 4X BOXES, IF NEEDED.
- 8. USE CAUTION WHEN INSTALLING CONDUITS UNDER EXISTING CULVERTS.
- 9. ALL COSTS ASSOCIATED WITH CONNECTING PROPOSED CONDUIT TO EXISTING JUNCTION WELLS OR EXISTING CONDUITS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CONDUIT BEING INSTALLED.
- 10. THE CABINET COMPONENTS SHALL BE SQUARE D. THE CONTRACTOR SHALL CONTACT ALASTAIR PROBERT, SOUTH DISTRICT MAINTENANCE ENGINEER. AT (302) 853-1300 TO GO OVER FINAL CABINET WIRING AND CONFIGURATION.



DAVIT ARM LIGHT POLE DETAIL

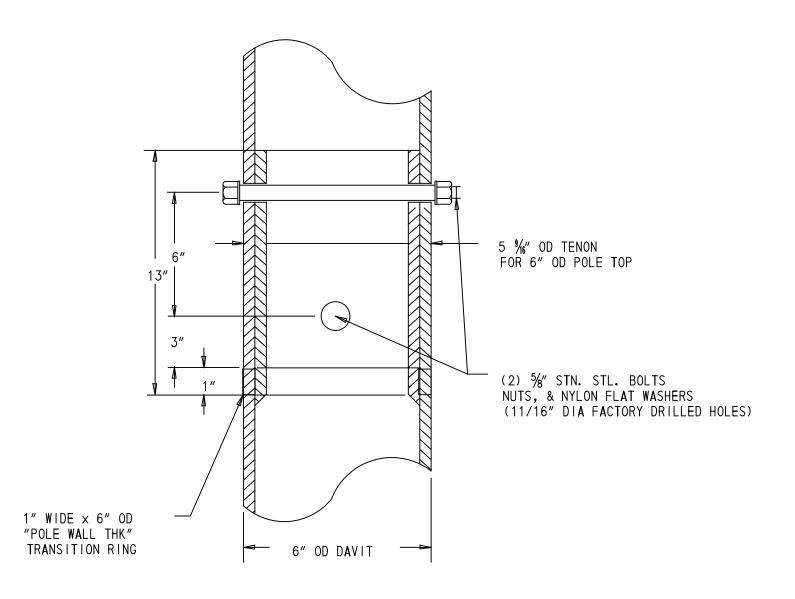
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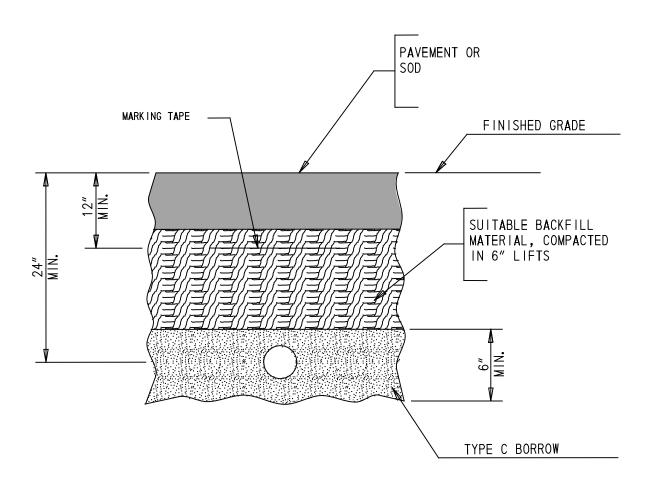
- 1. HEAT TREAT POLE & DAVIT TO -T6, TEMPER AFTER WELDING.
 2. FINISH POLE & DAVIT SHALL BE SATIN FINISHED POLISHED AND WRAPPED.
- 3. DESIGNED IN ACCORDANCE WITH STANDARDS ESTABLISHED BY THE LATEST EDITION OF AASHTO REQUIREMENTS.
- 4. TRANSFORMER SHALL MEET THE STANDARDS ESTABLISHED BY THE
- LATEST EDITION OF AASHTO BREAKAWAY REQUIREMENTS.

 DUE TO VARYING ELEVATIONS OF ROADWAY, IT MAY BE NECESSARY TO MAINTAIN A NOMINAL FIXTURE MOUNTING HEIGHT (OF 30' AS SPECIFIED ON PLANS) ABOVE THE ROADWAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THESE MEASUREMENTS. BETWEEN TWO ADJACENT LUMINAIRES, THE DIFFERENCE IN HEIGHT SHALL NOT EXCEED 12".

MATERIAL SPECIFICATION							
POLE & DAVIT TUBES	6063-T6						
ANCHOR BASE	AA356-T6						
BOLT COVERS	AA356						
ANCHOR BOLT NUTS	ASTM-A563 GR.A						
ANCHOR BOLTS	ASTM-F1554 GR55						
STN. STL. HARDWARE	AISI-300 SERIES STN.STL.						
TRANSFORMER BASE	AA 356-T6						
T-BASE HARDWARE	ASTM-A325 GALV.						

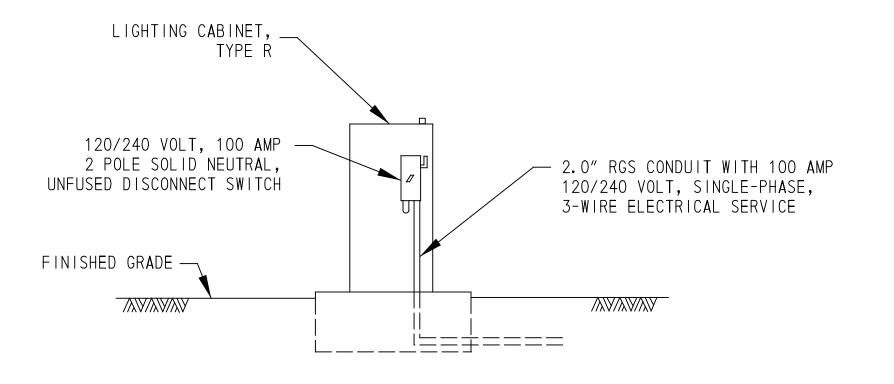


FLUSH JOINT DETAIL

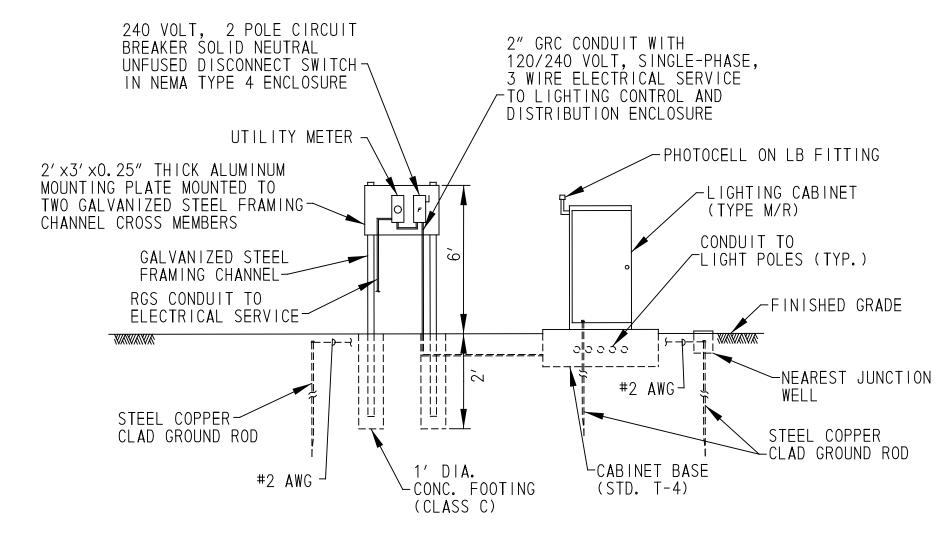


BURIED CONDUIT DETAIL

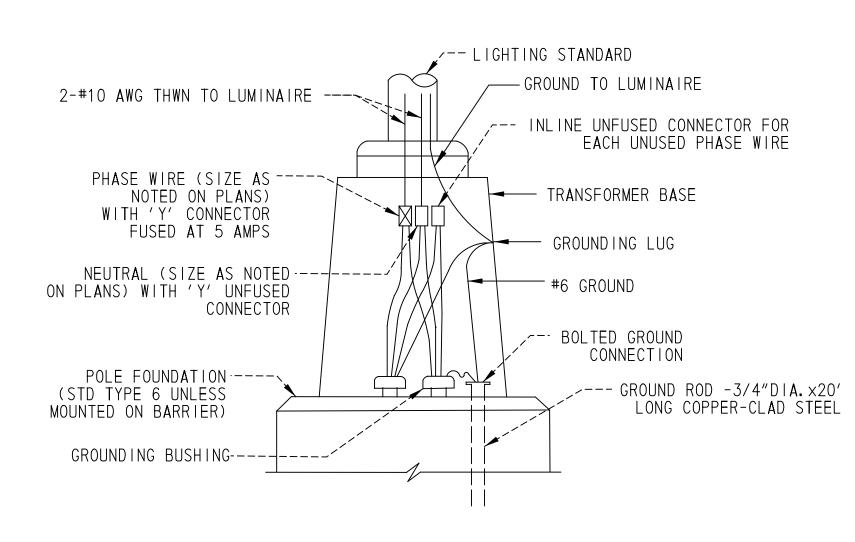
ADDENDA / REVISIONS	NOT TO SCALE	HSIP SC, SR24 AT ANGOLA ROAD	CONTRACT BRIDGE NO. T202400902 COUNTY BRIDGE NO. N/A DESIGNED BY: B. CUEVAS	LIGHTING DETAIL	SECTION TD SHEET NO.	
	-	TION GO, GIVET AN ANGOLA NOAD	SUSSEX CHECKED BY: N. TETTEH		53	



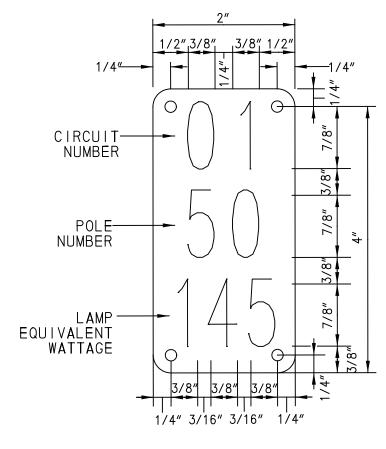
LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE (REAR VIEW)



ELECTRICAL UTILITY SERVICE EQUIPMENT AND LIGHTING CONTROL AND DISTRIBUTION ENCLOSURE DETAIL (120/240V)



TYPICAL LUMINAIRE CONNECTION - 120/240V SERVICE CONTINUOUS RUN



TYPICAL POLE IDENTIFICATION TAG

NOTES:

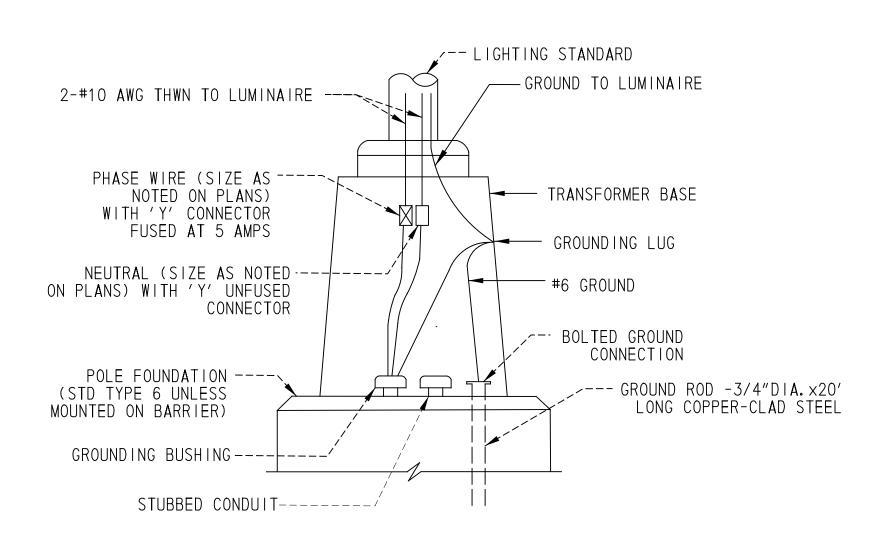
1. IDENTIFICATION TAG SHALL BE INSTALLED ON THE SIDE OF THE POLE FACING AWAY FROM TRAFFIC.

2. POLE ARMS SHALL BE ALIGNED PERPENDICULAR TO THE EDGE OF TRAVELWAY, UNLESS OTHERWISE DIRECTED.

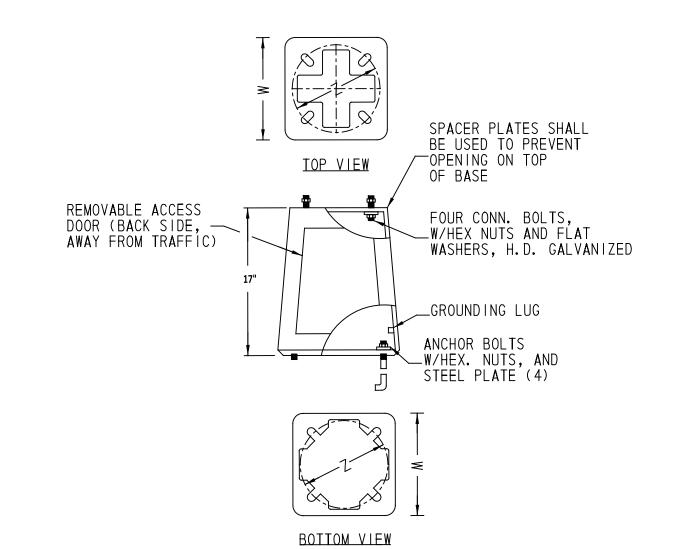
3. THE OUTER SLEEVE MEMBER AT THE LIGHT STANDARD FLUSH JOINT SHALL BE FURNISHED WITH PREDRILLED THROUGH HOLES AT 90 DEGREES APART (MIN. 6" DISTANCE BETWEEN HOLES). THE INNER MEMBER SHALL BE DRILLED IN THE FIELD AFTER THE POLE SHAFT IS INSTALLED AND THE DAVIT ARM IS ALIGNED.

4. LAMP TYPE, WATTAGE AND HORIZONTAL DISTRIBUTION TYPE SHALL BE AS SPECIFIED ON THE PLANS. ALL LUMINAIRES SHALL BE MOUNTED AT A ZERO DEGREE TILT ANGLE. PHOTOCELL AS REQUIRED PER PLANS.

5. LUMINAIRES SHALL HAVE CUTOFF OPTICS, AND BE LABELLED WITH AN IDENTIFICATION STICKER IN ACCORDANCE WITH NEMA CONVENTIONS.



TYPICAL LUMINAIRE CONNECTION - 120/240V SERVICE END OF RUN



LIGHTING STRUCTURE ON BREAKAWAY TRANSFORMER BASE

N. T. S.

MOUNTING	ARM	MIN	BOLT	BOLT
HEIGHT	LENGTH	WIDTH 'W'	DI A.	CIRCLE 'Z'
LESS THAN 40'	LESS THAN 30'	13"	1"	

NOTES:

1. ALUMINUM TRANSFORMER BASE SHALL MEET THE MOST RECENT AASHTO BREAKAWAY REQUIREMENTS

2. BREAKAWAY TRANSFORMER BASES SHALL BE INSTALLED WITH ALL POLES, UNLESS OTHERWISE NOTED.

3. OPENING OF TRANSFORMER BASE ACCESS DOOR SHALL BE INSTALLED ON THE SIDE OF THE POLE FACING AWAY FROM TRAFFIC.

4. PROVIDE ACCESSIBLE GROUNDING NUT OR LUGINSIDE TRANSFORMER BASE.

5. PROVIDE WASHERS, SHIMS AND BOLTS AS REQUIRED BY TRANSFORMER BASE MANUFACTURER.

6. THE CONTACT AREA BETWEEN THE TRANSFORMER BASE AND CONCRETE FOUNDATION SHALL BE SHOP COATED WITH COAL TAR EPOXY MEETING SSPC-PAINT 16 SPECIFICATIONS. THE THICKNESS OF THE COATING SHALL BE BETWEEN 6 AND 8 MILS. THE COATING SHALL BE COMPLETELY DRY BEFORE INSTALLATION. THE TOP OF THE FOUNDATION SHALL NOT BE PAINTED.

7. TOP AND BOTTOM OF BASE MAY BE SLOTTED FOR BOLT CIRCLE. SLOT MUST ACCOMMODATE DIMENSION SHOWN.

8. TRANSFORMER BASE AND ASSOCIATED COMPONENTS SHALL MEET THE FOLLOWING MATERIAL REQUIREMENTS:

MATERIAL	_ SPECIFICATION
POLE & DAVIT TUBES	6063-T6
ANCHOR BASE	AA356-T6
BOLT COVERS	AA356
ANCHOR BOLT NUTS	ASTM-A563 GR.A
ANCHOR BOLTS	ASTM-F1554 GR55
STN. STL. HARDWARE	AISI-300 SERIES SST
TRANSFORMER BASE	AA356-T6
T-BASE HARDWARE	ASTM-A325 GALV.

ADDENDA / REVISIONS

NOT TO SCALE

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT
BRIDGE NO.

T202400902

COUNTY

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CHECKED BY: N. TETTEH

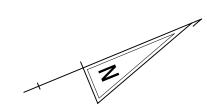
LIGHTING DETAIL

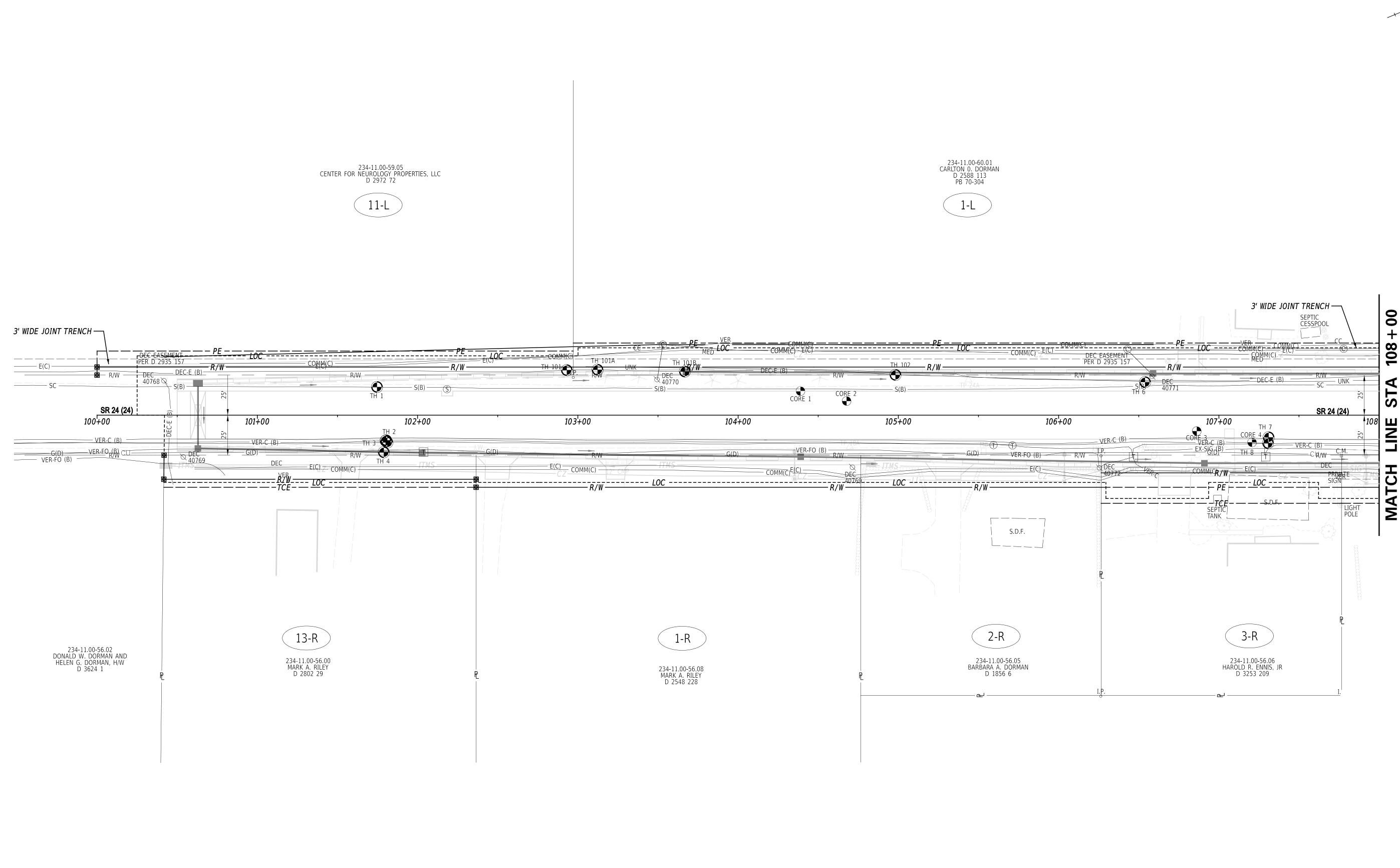
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ADDENDA / REVISIONS

HSIP SC, SR24 AT ANGOLA ROAD

T202400902 COUNTY SUSSEX

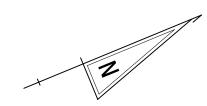
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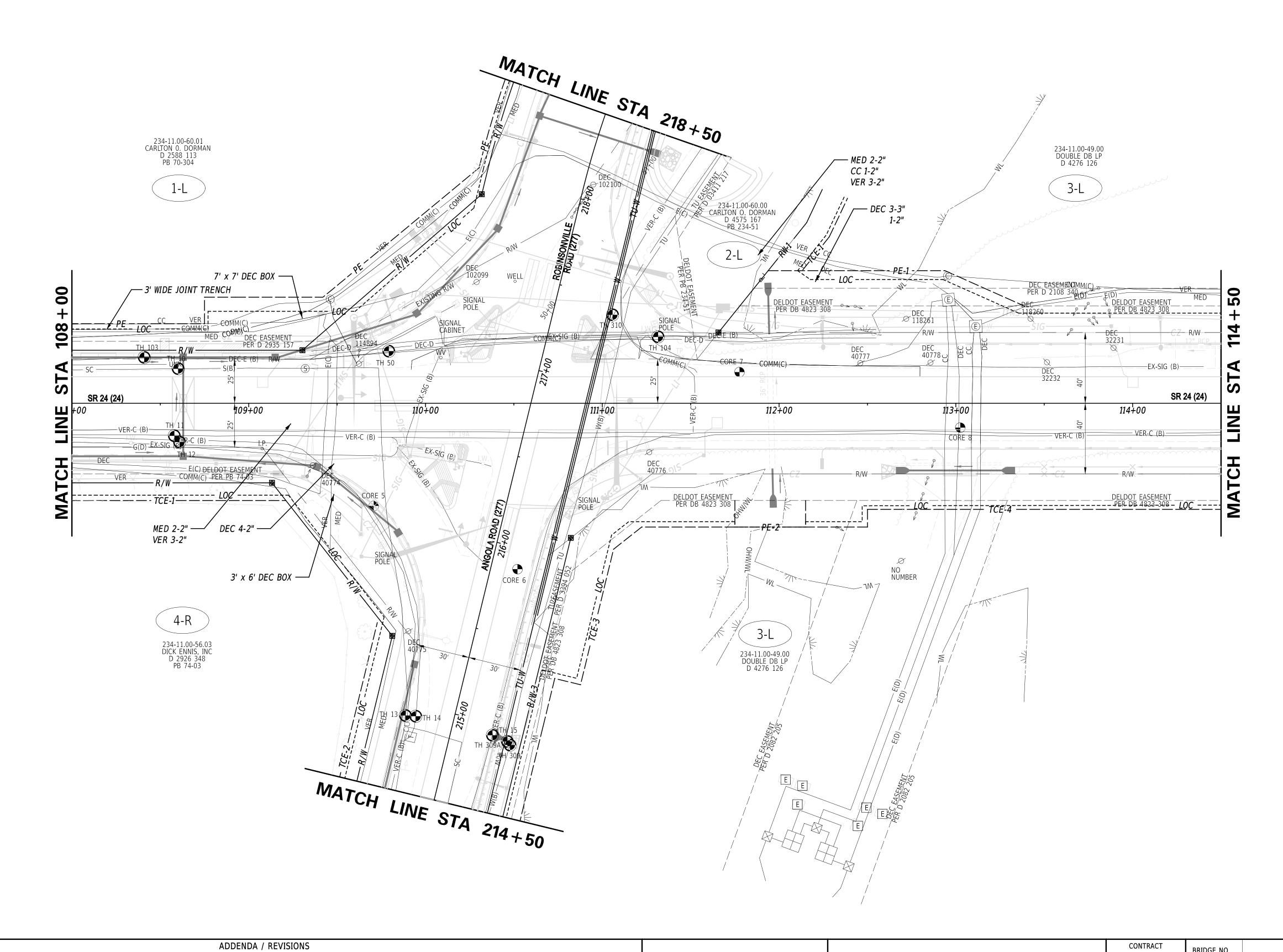
BRIDGE NO.

UTILITY RELOCATION PLAN DESIGNED BY: W. NAUMAN CHECKED BY: J. GAINES

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BRIDGE NO.

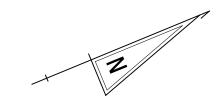
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W. NAUMAN

CHECKED BY: J. GAINES

UTILITY RELOCATION PLAN

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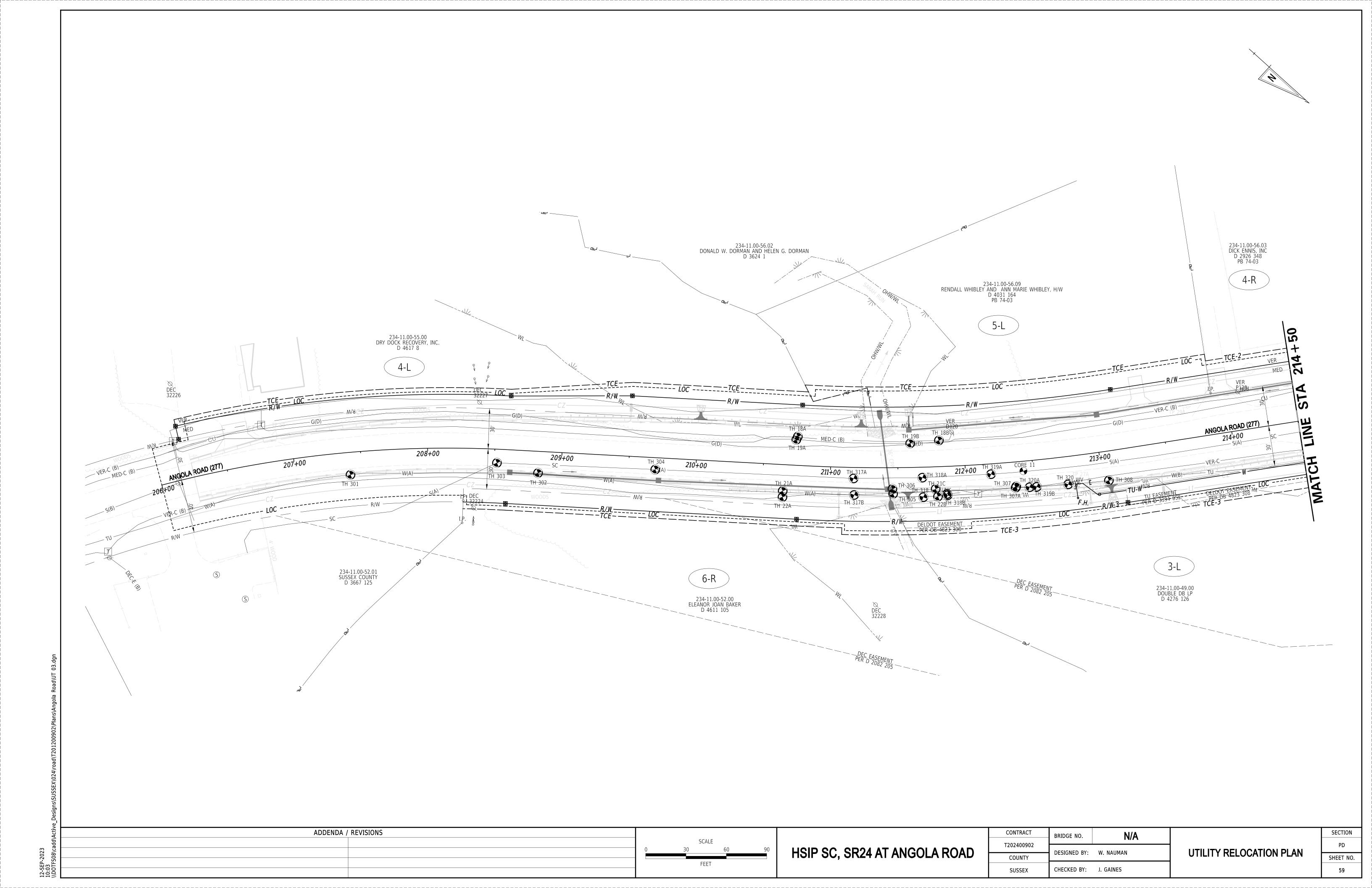
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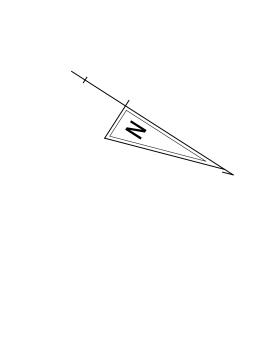
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SR 24 (24)	CORE 10					104	SR 24 (24)
115+00	116+00	117+00	118+00	119+00	120+00	121+00	122+00 123
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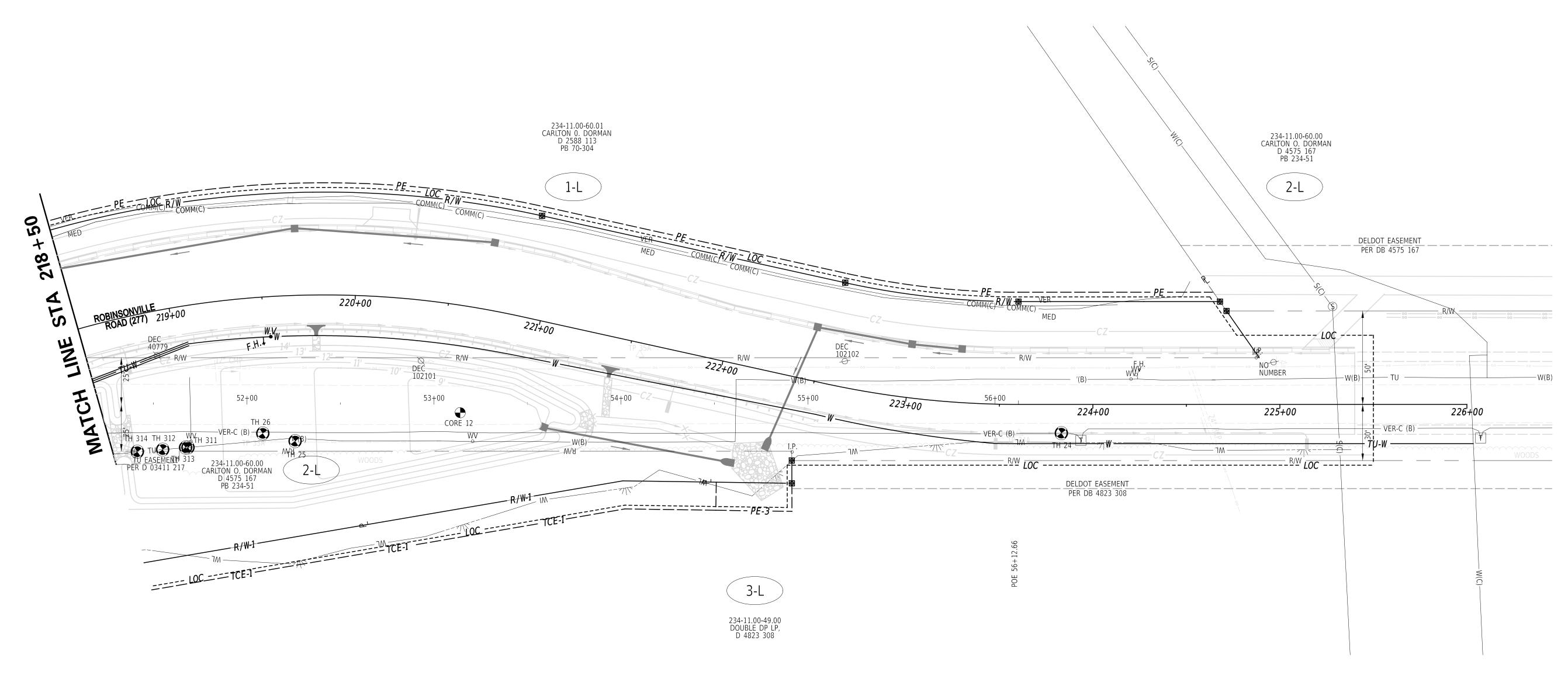
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		HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	DESIGNED BY: W. NAUMAN	UTILITY RELOCATION PLAN	SHEET NO.
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HSIP SC, SR24 AT ANGOLA ROAD

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COUNTY

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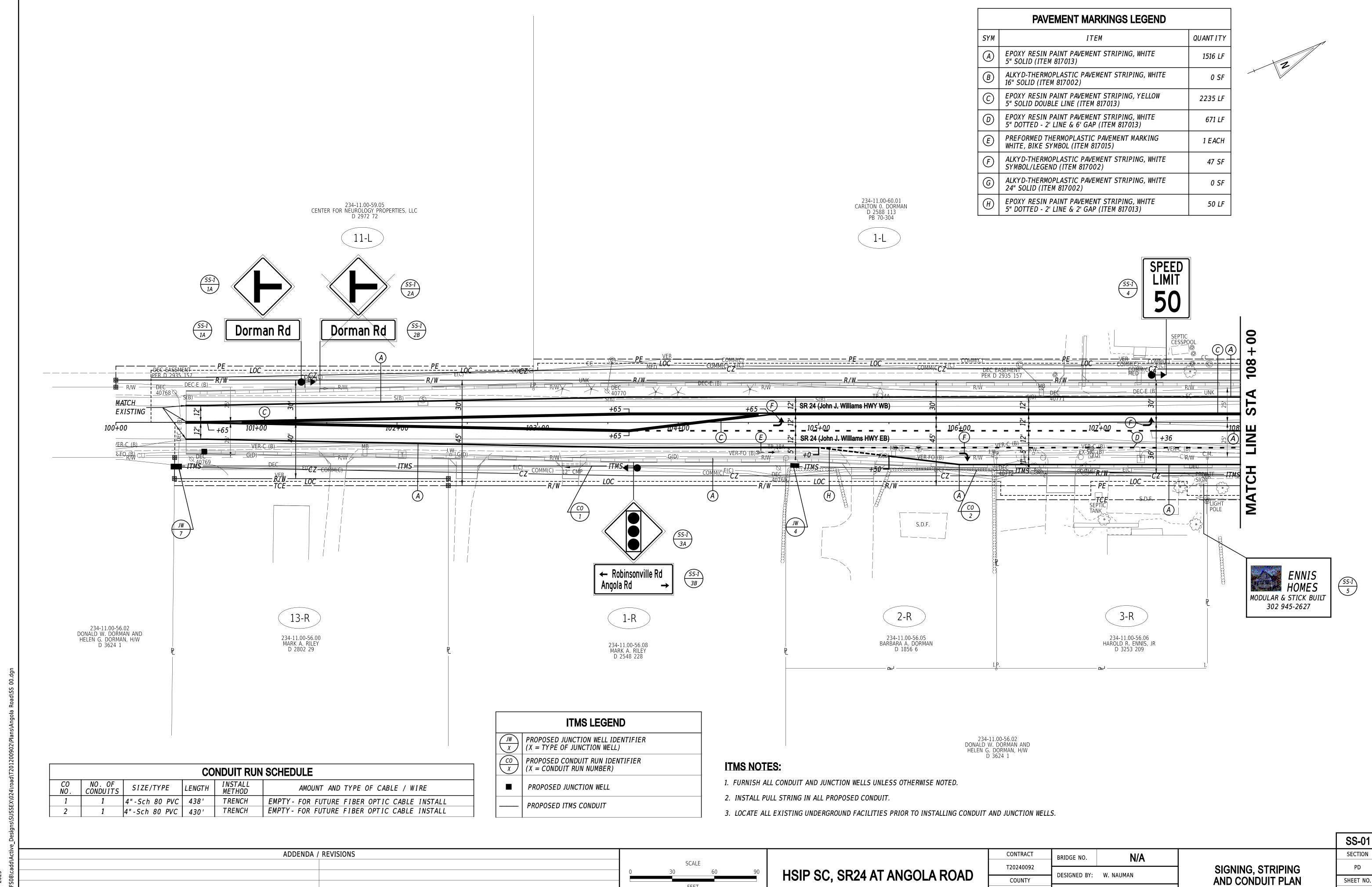
BRIDGE NO.

N/A

W. NAUMAN

CHECKED BY: J. GAINES

UTILITY RELOCATION PLAN

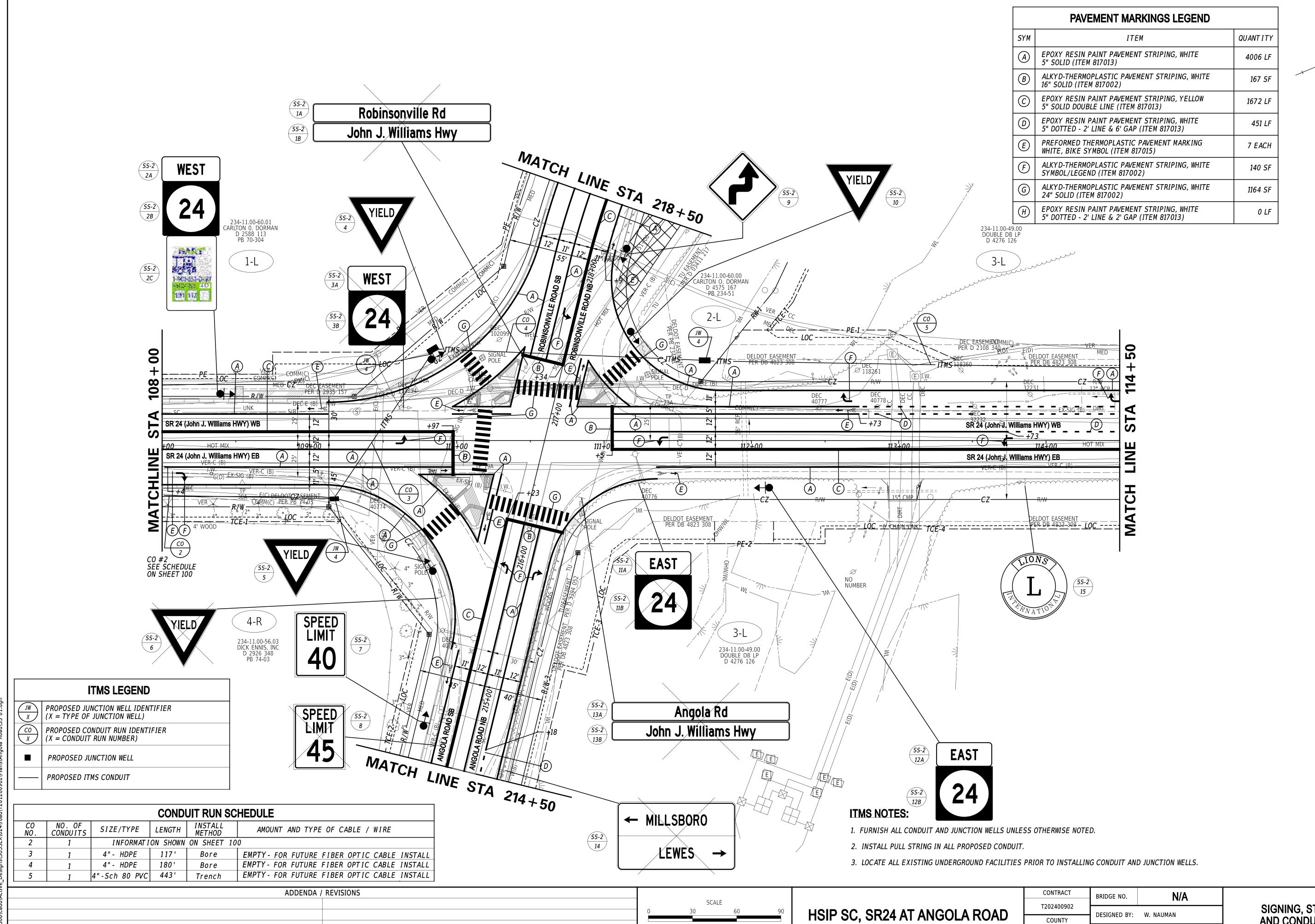


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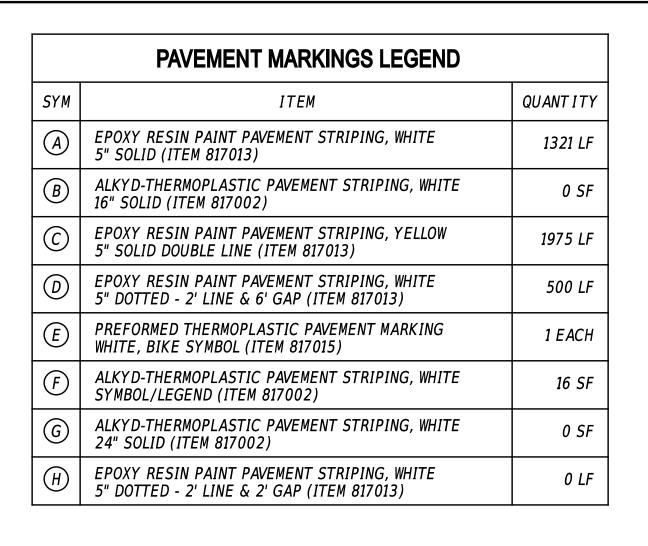
SIGNING, STRIPING AND CONDUIT PLAN

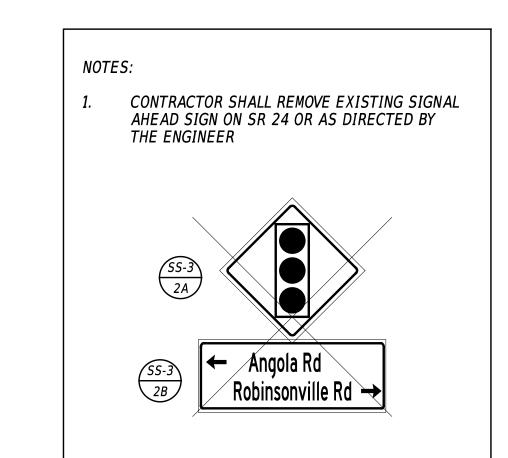
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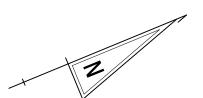
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234-11.00-49.00 DOUBLE DB LP D 4276 126

				CO	NDUIT RUN	SCHEDULE				
	CO NO.	AMOUNT AND TYPE OF CABLE / WIRE								
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6 1 4"-Sch 80 PVC 465' Trench EMPTY- FOR FUTURE FIBER OPTIC CABLE INST										

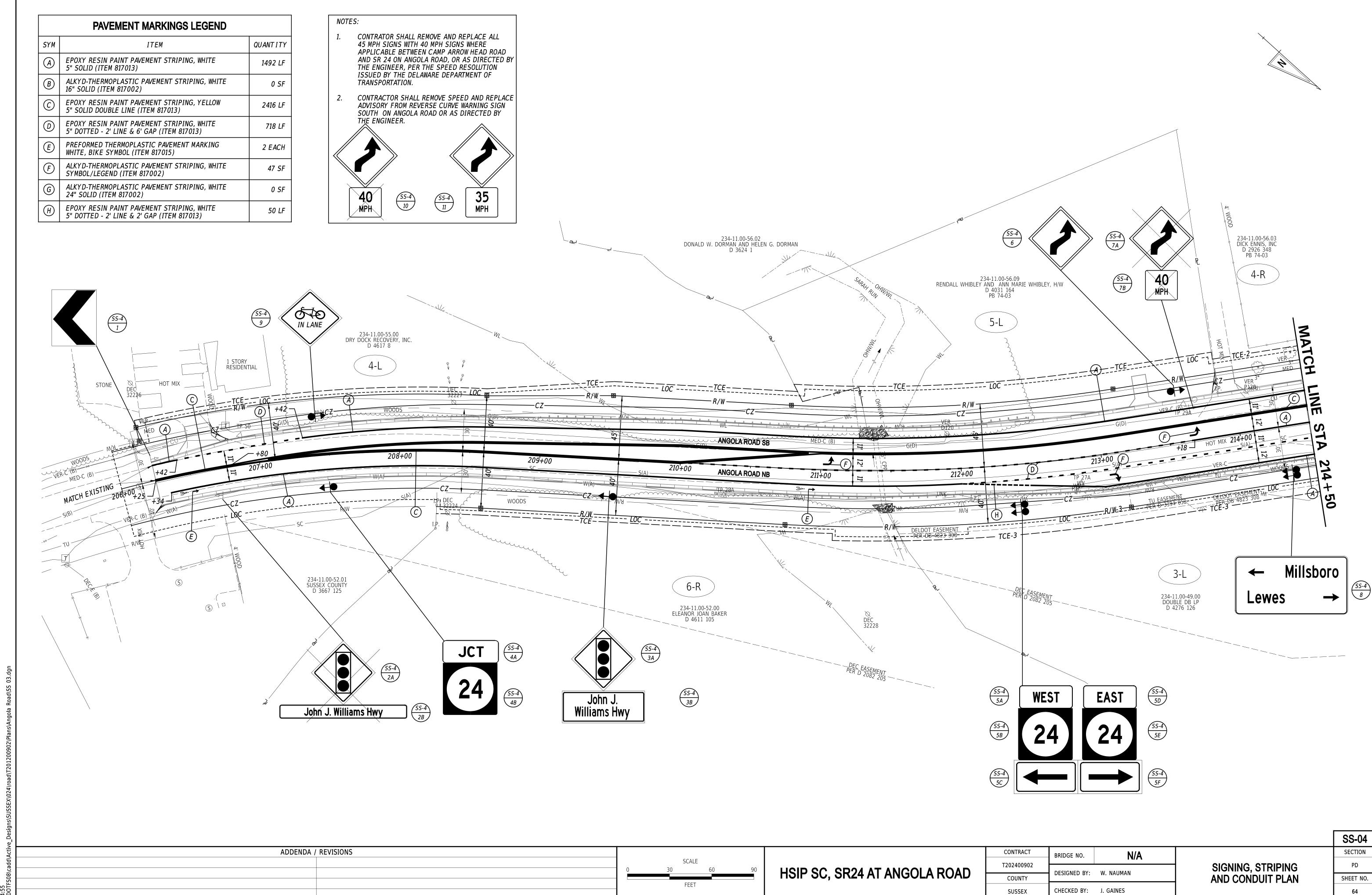
	ITMS LEGEND
JW	PROPOSED JUNCTION WELL IDENTIFIER (X = TYPE OF JUNCTION WELL)
(CO X	PROPOSED CONDUIT RUN IDENTIFIER (X = CONDUIT RUN NUMBER)
	PROPOSED JUNCTION WELL
	PROPOSED ITMS CONDUIT

ITMS NOTES:

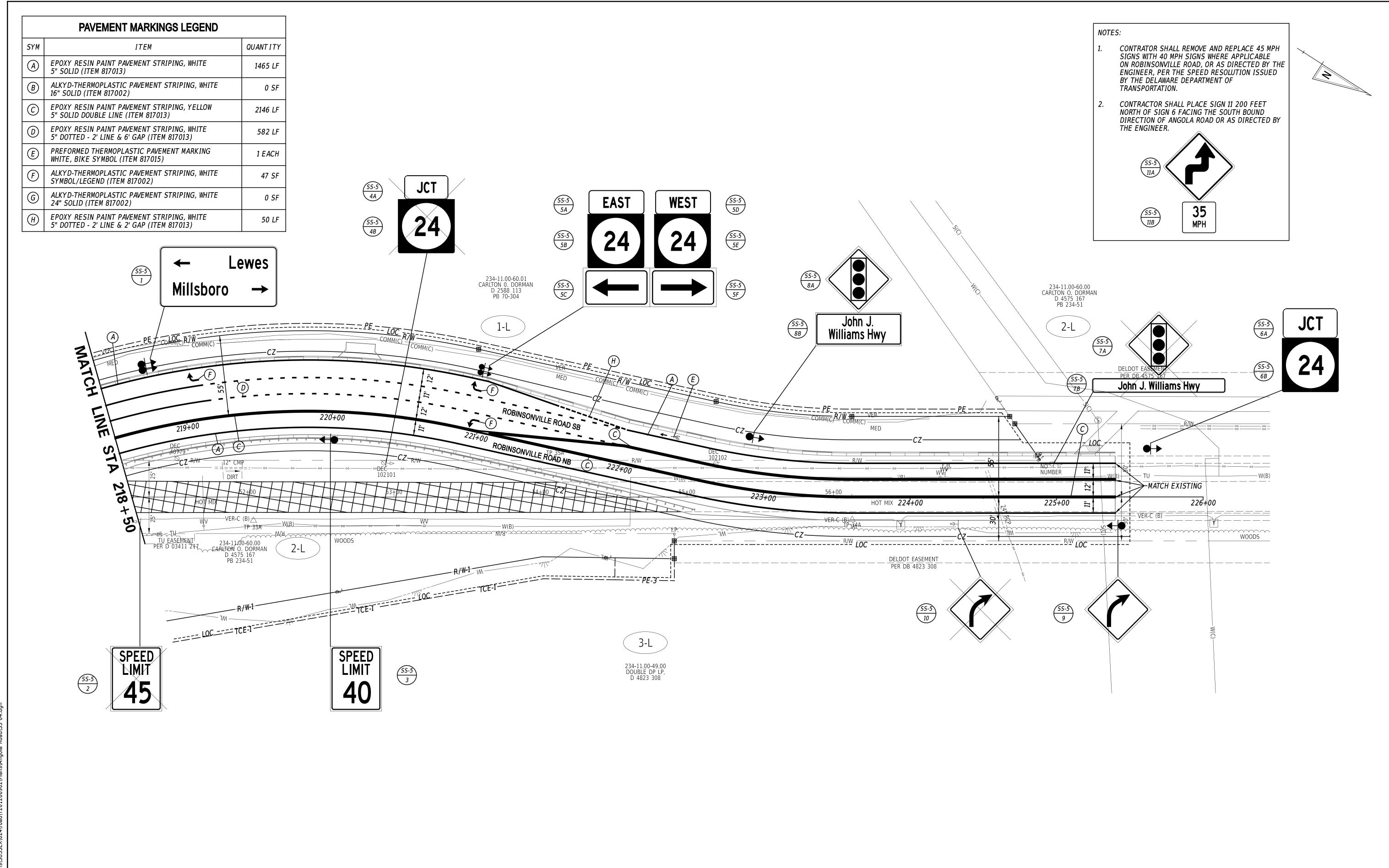
- 1. FURNISH ALL CONDUIT AND JUNCTION WELLS UNLESS OTHERWISE NOTED.
- 2. INSTALL PULL STRING IN ALL PROPOSED CONDUIT.
- 3. LOCATE ALL EXISTING UNDERGROUND FACILITIES PRIOR TO INSTALLING CONDUIT AND JUNCTION WELLS.

				_			SS-03
ADDEND	A / REVISIONS			CONTRACT	BRIDGE NO. N/A		SECTION
I #10 ADDED MISSING ITMS IDENTIFIERS AND SCHEDULES		SCALE		T202400902	14/74	SIGNING, STRIPING	PD
		0 30 60 90	HSIP SC, SR24 AT ANGOLA ROAD	COUNTY	DESIGNED BY: W. NAUMAN	AND CONDUIT PLAN	SHEET NO
		FEET			CHECKED BY: 1 CAINES	AND CONDON FLAN	011221 1101
				SUSSEX	CHECKED BY: J. GAINES		63 7

14:55 \\DOTFS08\cadd\Active_Designs\SUSSEX\024\road\T201200902\Plans\Angola Roa



8-SEP-2023 14:55



8-SEP-2023 14:56

ADDENDA / REVISIONS

SCALE
0 30 60 90
FEET

HSIP SC, SR24 AT ANGOLA ROAD

CONTRACT
BRIDGE NO.

T201200902

COUNTY

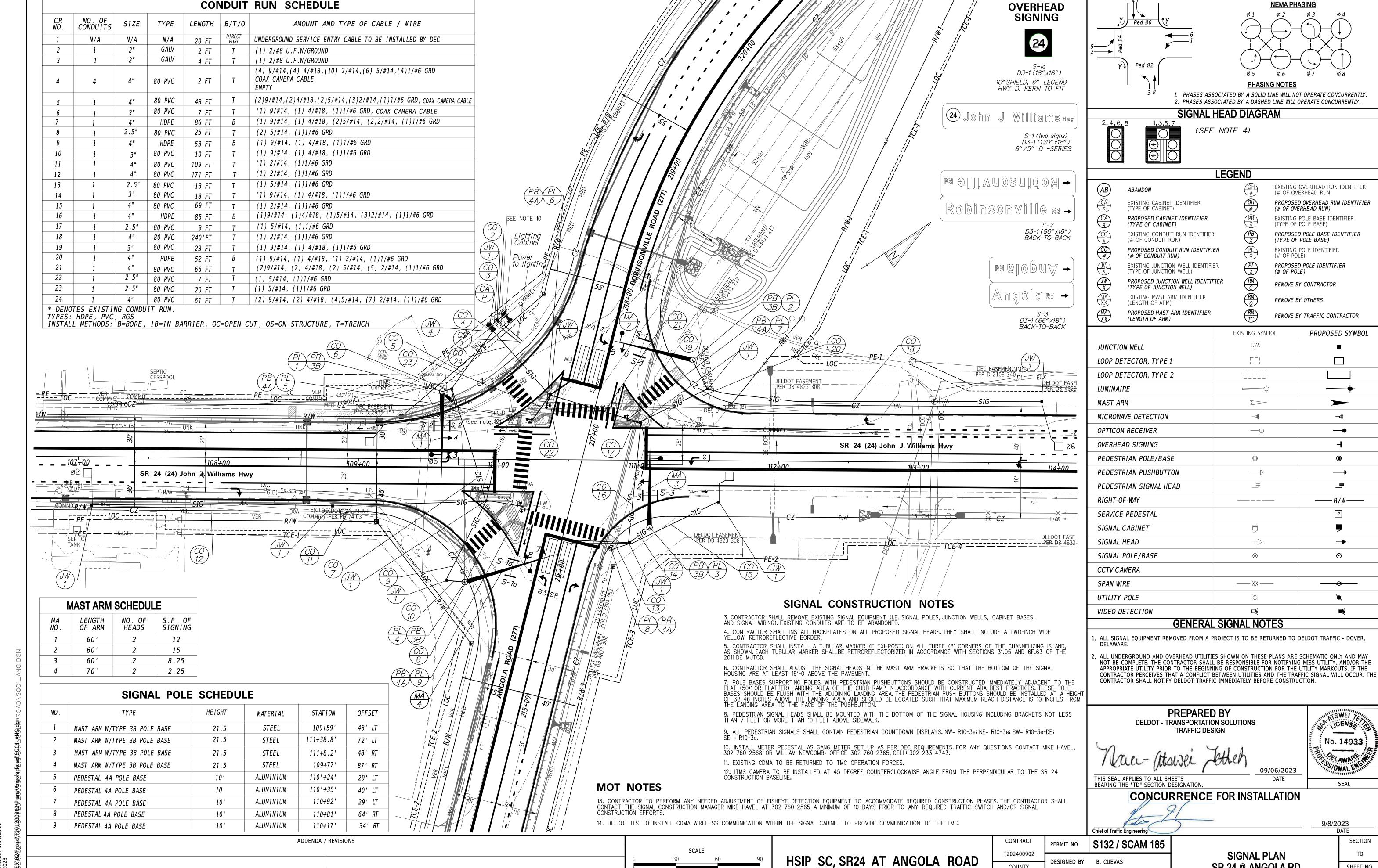
SUSSEX

CHECKED BY: J. GAINES

SIGNING, STRIPING AND CONDUIT PLAN SS-05
SECTION
PD
SHEET NO.

									PEI	RMANENT	SIGN SCHEDULE	- ROADWAY								
		SIGN DESIGNATION	QTY. DESCRIPTION	(IN)	(IN)	SUPPLY OF FLAT SI SHEET ALUMINUM, TYPE IV, RETROREFLECTIVE RE' SHEETING (SF)	14 / ITEM 818003 UPPLY OF FLAT IEET ALUMINUM, TYPE XI, TROREFLECTIVE SHEETING (SF)	X15 / ITEM 819512 SIGN POST REFLECTIVE PANEL (EA) SIGN DISPOSITION		OST (EACH)		LLATION OR REMOVAL OF IN MULTIPLE SIGN POSTS (SF)	POST INSTALLATION TYPE	X16 / ITEM 819011 12' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	X17 / ITEM 819023 15' SIGNPOSTS W/ BASEPOSTS & HARDWARE (EACH)	ITEM 819016 4" HOLE, 0-6" (EACH) ITEM 819017 4" HOLE, >6" (EACH)	SIGN DISPOSITION	X14A FLAT SHEET ALUMINUM SIGN PANELS (TYPE XI SHEETING) - SIGNS ON POLES, SPAN WIRES, MAST ARMS (TRAFFIC SUPPLY)	ITEM 822500 INSTALL OVERHEAD SIGN (SF) ON SIGNAL POLES TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (EA) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS ITEM 823001 INSTALLATION OF SIGN ON SPAN WIRE OR MAST ARM (SF) TRAFFIC CONTRACTOR ITEM, EXCEPT FOR PILOT PROJECTS	REMARKS
SS-1	1A	W2-2_R(30)	1 SIDE ROAD (Perpendicular - Right) - 30x30	30	30	6.3		NEW		1			2011	1		1				Darman Dd
SS-1	1B	W16-8P	1 ADVANCE STREET NAME (1 - line plaque)	30	9	1.9		NEW		1			SOIL	1						Dorman Rd (Kerning Medium 4"C)
SS-1 SS-1	2A 2B	W2-2_R(30) D3-1(9)	1 SIDE ROAD (Perpendicular - Right) - 30x30 1 STREET NAME (1 Line)	30	30			REMOVE REMOVE	1 1											Dorman Rd
SS-1	3A	W3-3(36)	1 SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0		RENEW	1	1			SOIL	1		1				
SS-1	3В	W16-8aP	1 ADVANCE STREET NAME (2 - line plaque)	42	18	5.3		RENEW	1	1										(<) Robinsonville Rd / Angola Rd (>) (Kerning Narrow, 4"C)
SS-1 SS-1	4 5	R2-1-50(24) Private Sign	1 SPEED LIMIT (50 MPH - 24x30) 1 "ENNIS HOMES"	24	30	5.0		RENEW REMAIN	1	1			SOIL			1				"ENNIS HOMES" (Business)
SS-2 SS-2	1A 1B	D3-1(9) D3-1(9)	1 STREET NAME (1 Line) 1 STREET NAME (1 Line)	42 42	9			REMOVE REMOVE	1 1											Robinsonville Rd John J. Williams Hwy
SS-2 SS-2	2A 2B	M3-4(24) M1-5(24)	1 CARDINAL DIRECTION - WEST - 24x12 1 STATE ROUTE (2 - Digit Sign) - 24x24	24 24		2.0 4.0		NEW ADD TO ASSEMBLY	,	1			SOIL	1		1				24 "SR24"
SS-2	2C	D4-3-DE	BUS STOP (REQUESTS FOR FABRICATION THRU DART TRANSIT AT 302-576-6132)	12	18			NEW		1				1						Signs to be furnished by DART
SS-2 SS-2	3A 3B	M3-4(24) M1-5(24)	1 CARDINAL DIRECTION - WEST - 24x12 1 STATE ROUTE (2 - Digit Sign) - 24x24	24	12 24			REMOVE REMOVE	1											24 "SR24"
SS-2	4	R1-2(36)	1 YIELD	36	36		9.0	NEW		1			SOIL	1		1				
SS-2 SS-2	5	R1-2(36) R1-2(36)	1 YIELD 1 YIELD	36 36	36 36		9.0	NEW REMOVE	1	1			SOIL	1		1				
SS-2	7 8	R2-1-40(24)	1 SPEED LIMIT (40 MPH - 24x30) 1 SPEED LIMIT (45 MPH - 24x30)	24 24	30	5.0		NEW REMOVE	1	1			SOIL	1		1				
SS-2 SS-2	9 10	W1-4_R_FY(30) R1-2(36)	1 REVERSE CURVE (Right) - 30x30 (Fluorescent Yellow) 1 YIELD		30		6.3 9.0	NEW NEW		1 1			SOIL SOIL	1 1		1 1				
SS-2 SS-2	11A 11B	M3-2(24) M1-5(24)	1 CARDINAL DIRECTION - EAST - 24x12 1 STATE ROUTE (2 - Digit Sign) - 24x24 (ARDINAL DIRECTION - EAST - 24x12)	24	24	2.0		REMOVE REMOVE	1 1	4				4						
SS-2 SS-2	12A 12B	M3-2(24) M1-5(24)	1	24	12 24	2.0 4.0		RENEW ADD TO ASSEMBL	, 1	1			SOIL	1		1				24 "SR24"
SS-2 SS-2	13A 13B	D3-1(9)	1 STREET NAME (1 Line) 1 STREET NAME (1 Line)	30				REMOVE REMOVE	1 1											Angola Rd John J. Williams Hwy
SS-2	14	D1-2	1 DESTINATION (2 Line)	60	30						REMOVE	12.5								(<) MILLSBORO LEWES (>)
SS-2	15	Private Sign						REMAIN												"LIONS INTERNATIONAL"
SS-3 SS-3	1A 1B	W3-3(36) W16-8aP	1 SIGNAL AHEAD (Symbol) - 36x36 1 ADVANCE STREET NAME (2 - line plaque)	42	36 18	9.0 5.3		NEW ADD TO ASSEMBL	,	1			SOIL	1		1				(<) Angola Rd Robinsonville Rd (>)
SS-3	2A	W3-3(36)	1 SIGNAL AHEAD (Symbol) - 36x36	36		0.0		REMOVE	1	<u>'</u>				·						(Kerning Narrow, 4"C)
SS-3	2B	W16-8aP	1 ADVANCE STREET NAME (2 - line plaque)	42	18			REMOVE	1				-							(<) Angola Rd Robinsonville Rd (>)
SS-3		R2-1-50(24)			30	5.0		NEW		1		-	SOIL	1		1				
SS-4 SS-4	1 2A	W1-8_FY(18) W3-3(30)	1 CHEVRON ALIGNMENT - 18x24 (Fluorescent Yellow) 1 SIGNAL AHEAD (Symbol) - 30x30	18 30	24 30		3.0	NEW REMOVE	1	1			SOIL	1		1				LI LIMEE II
SS-4 SS-4	3A	W16-8P W3-3(36)	1 ADVANCE STREET NAME (1 - line plaque) 1 SIGNAL AHEAD (Symbol) - 36x36	30 36	36	9.0		REMOVE NEW	1	1			_			1				John J. Williams Hwy John J.
SS-4	3B	W16-8aP	1 ADVANCE STREET NAME (2 - line plaque)	42	18	5.3		ADD TO ASSEMBLY	,	1										Williams Hwy (Kerning narrow 4"C)
SS-4 SS-4	4B	M2-1(21) M1-5(24)	1 JUNCTION - 21x15 1 STATE ROUTE (2 - Digit Sign) - 24x24	24	15 24	2.2 4.0		NEW ADD TO ASSEMBLY	,	1			_	1		1				24 "SR24"
SS-4 SS-4	5B	M3-4(24) M1-5(24)	1 CARDINAL DIRECTION - WEST - 24x12 1 STATE ROUTE (2 - Digit Sign) - 24x24	24		2.0 4.0					NEW ADD TO ASSEMBLY		SOIL	1		1				24 "SR24"
SS-4 SS-4 SS-4	5D	M6-1_L(21) M3-2(24) M1-5(24)	1 DIRECTIONAL ARROW (Left) - 21x15 1 CARDINAL DIRECTION - EAST - 24x12 1 STATE ROUTE (2 - Digit Sign) - 24x24	21 24 24	15 12 24	2.2 2.0 4.0					ADD TO ASSEMBLY NEW ADD TO ASSEMBLY	2.0	SOIL	1		1				(24) "SR24"
SS-4 SS-4	5F 6	M6-1_R(21) W1-4_R_FY(30)	1 DIRECTIONAL ARROW (Right) - 21x15 1 REVERSE CURVE (Right) - 30x30 (Fluorescent Yellow)	21 30	15 30	2.2	6.3	NEW		1	ADD TO ASSEMBLY		SOIL	1		1				
SS-4 SS-4 SS-4	7B	W1-4_R_FY(30) W13-1P-40(18) W13-1P-35(18)	1 ADVISORY SPEED (40 MPH) 18x18	30 18 18	18 18	2.3		REMOVE REMOVE NEW	1	1										
	8	D1-2	1 DESTINATION (2 Line)	60	30	12.5					NEW	12.5	SOIL	2		2				(<) Millsboro Lewes(>) (Highway D, 6.5")
SS-4	10	W11-1-DE(24) W13-1P-40(18)	2 ADVISORY SPEED (40 MPH) 18x18	18	24 18	4.0		NEW REMOVE	1''	1				1		1				
SS-4 SS-5	1	W13-1P-35(18) D1-2	1 DESTINATION (2 Line)	60	30	12.5		NEW		1	NEW	12.5	SOIL	2		2				(<) Lewes Millsboro (>) (Highway D, 6.5")
SS-5 SS-5 SS-5	2 3 4A	R2-1-45(24) R2-1-40(24) M2-1(21)			30 30 15			REMOVE NEW REMOVE	1	1			SOIL	1		1				
SS-5 SS-5	4B 5A	M1-5(24) M3-2(24)	1 STATE ROUTE (2 - Digit Sign) - 24x24 1 CARDINAL DIRECTION - EAST - 24x12	24 24	24 12	2.0		REMOVE	1		NEW	2.0		1		1				24 "SR24"
SS-5 SS-5 SS-5	5B	M1-5(24) M6-1_L(21)	1 STATE ROUTE (2 - Digit Sign) - 24x24 1 DIRECTIONAL ARROW (Left) - 21x15 1 CARDINAL DIRECTION WEST 24x12	24	15	4.0 2.2					ADD TO ASSEMBLY ADD TO ASSEMBLY	2.2	SOIL	1		4				24 "SR24"
SS-5	5E	M3-4(24) M1-5(24)	1	24	24	4.0					NEW ADD TO ASSEMBLY		SOIL	1		1				24 "SR24"
SS-5 SS-5	6A	(2.)	1 DIRECTIONAL ARROW (Right) - 21x15 1 JUNCTION - 21x15 1 STATE POLITE (2. Digit Sign.) - 24x24		15	2.2		NEW ADD TO ASSEMBLY	,	1	ADD TO ASSEMBLY	2.2	SOIL	1		1				
SS-5 SS-5 SS-5	6B 7A 7B	M1-5(24) W3-3(30) W16-8P	1 STATE ROUTE (2 - Digit Sign) - 24x24 1 SIGNAL AHEAD (Symbol) - 30x30 1 ADVANCE STREET NAME (1 - line plaque)	24 30 30	24 30 9	4.0		ADD TO ASSEMBL' REMOVE REMOVE	1 1	1										24 "SR24" John J. Williams Hwy
SS-5	8A	W3-3(36)	1 SIGNAL AHEAD (Symbol) - 36x36	36	36	9.0		NEW	'				-	1		1				John J.
SS-5	8B	W16-8aP	1 ADVANCE STREET NAME (2 - line plaque)	30	18	3.8		ADD TO ASSEMBLY	,	1			SOIL							Williams Hwy (Kerning narrow 4"C)
SS-5 SS-5	10	W1-2 R(30) W1-2 R(30)	1 CURVE (Right) - 30x30 (Fluorescent Yellow)	30	30 30		6.3	NEW REMOVE	1	1			SOIL	1		1				
SS-5	- 11	W1-4_R(30) R2-1-45(24) R2-1-40(24)	1 REVERSE CURVE (Right) - 30x30 (Fluorescent Yellow) 2 SPEED LIMIT (45 MPH - 24x30) 2 SPEED LIMIT (40 MPH - 24x30)	24	30 30 30	10.0	6.3	NEW REMOVE NEW	2	2			SOIL	1		1				See Speed Limit resolution. See Speed Limit resolution.
\$132	S-1a	D3-1a(18)	1 STREET NAME + ROUTE SHIELD (OVERHEAD) - 1 LINE (DOUBLE SIDED)	18	18	1010							55.2				NEW (OVERHEAD)	2.3	2.3	(SR 24) 10"SHIELD, 6" LEGEND HWY D. KERN TO FIT
S132	S-1	D3-1a(18)	1 STREET NAME + ROUTE SHIELD (OVERHEAD) - 1 LINE (DOUBLE SIDED)	120	18												NEW (OVERHEAD)	15.0	15.0	(Back to back overhead sign on mast arm) (24 Route Sheild) John J Williams Hwy 8"/5" D- Series
S132	S-2	D3-1a(18)	1 STREET NAME (OVERHEAD) - 1 LINE (DOUBLE SIDED)	96	18												NEW (OVERHEAD)	12.0	12.0	(Back to back overhead sign on mast arm) < Robinsonville Rd Robinsonville Rd> U8"/L6" Hwy D-Series
S132	S-3	D3-1a(18)	1 STREET NAME (OVERHEAD) - 1 LINE (DOUBLE SIDED)	66	18												NEW (OVERHEAD)	8.3	8.3	(Back to back overhead sign on mast arm) (24) John J Williams Hwy 8"/5" D- Series
						179	55	0	30	35		13 58		30	0	25 4		38	0 0 38	(Back to back overhead sign on mast arm)

REVISIONS			CONTRACT BRIDGE NO.		SECTION
	NOT TO SOME		T202400902	SIGNING, STRIPING	PD
	NOT TO SCALE	HSIP SC, SR 24 AT ANGOLA ROAD	COUNTY DESIGNED BY: W. NAUMAN	AND CONDUIT PLAN	SHEET NO.
			SUSSEX CHECKED BY: J. GAINES		66



FEET

COUNTY CHECKED BY: N. TETTEH SUSSEX

SR 24 @ ANGOLA RD

SIGNAL PHASING

29-SEP 13-20 G\Prol

- 1. THESE DRAWINGS DO NOT INCLUDE NECESSARY ELEMENTS OF CONSTRUCTION SAFETY. ALL CONSTRUCTION MUST BE COMPLETED IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT, AND ALL FEDERAL, STATE AND LOCAL REQUIREMENTS.
- 2. EXISTING UTILITIES ARE SHOWN BASED ON THE BEST INFORMATION CURRENTLY AVAILABLE. LOCATIONS ARE NOT BASED ON A FIELD SURVEY. THE CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION.
- 3. THE CONTRACTOR SHALL PROTECT ALL UTILITIES DURING CONSTRUCTION. ANY UTILITY DAMAGED SHALL BE PROMPTLY AND FULLY RESTORED TO THE SATISFACTION OF THE UTILITY COMPANY AT THE CONTRACTOR'S EXPENSE.
- 4. THE CONTRACTOR SHALL PLAN AND IMPLEMENT ALL NECESSARY REQUIREMENTS OF THE DELAWARE UNDERGROUND UTILITY DAMAGE PREVENTION AND SAFETY ACT.
- 5. THE CONTRACTOR SHALL PROVIDE EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE SEDIMENT CONTROL ACT. ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE DELAWARE EROSION AND SEDIMENT CONTROL HANDBOOK AND ALL APPLICABLE LOCAL REQUIREMENTS.
- 6. TRAFFIC AND SAFETY CONTROL SHALL BE MAINTAINED DURING CONSTRUCTION IN CONFORMANCE WITH THE CURRENT VERSION OF THE DELAWARE MANUAL ON UNIFORM TRAFFIC CONTROL (MUTCD).
- 7. ALL WORK WITHIN STATE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH STATE OF DELAWARE STANDARDS AND IN ACCORDANCE WITH APPROVED UTILITY CONSTRUCTION PERMIT.
- 8. FOR ROAD CROSSING WITH STEEL CASING, THE CASING SHALL EXTEND A MINIMUM 5 FEET BEYOND EDGE OF PAVEMENT.
- 9. ROAD PLATING IS NOT PERMITTED FROM NOVEMBER 1, THROUGH APRIL 15.
- 10. ALL OPEN CUT ROAD AND DRIVEWAY CROSSINGS THAT ARE WITHIN 4 FEET OF AN EXISTING PAVEMENT/ CONCRETE SEAM SHALL BE RESTORED TO THE SEAM.
- 11. ALL DRIVEWAYS SHALL BE RESTORED "IN KIND".
- 12. ALL FIRE LANES, FIRE HYDRANTS AND FIRE DEPARTMENT CONNECTIONS SHALL BE MARKED IN ACCORDANCE WITH THE STATE FIRE PREVENTION REGULATIONS.
- 13. WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER. WATER MAINS CROSSING SANITARY SEWER MAINS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18 INCHES BETWEEN THE WATER MAIN AND THE SEWER. CROSSINGS SHALL BE ARRANGED SO THAT THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM SEWER MAIN JOINTS.
- 14. WATER MAINS SHALL HAVE A MINIMUM 4' OF COVER.
- 15. IF PIPE DEFLECTION IS NEEDED: MAX 1° AXIAL JOINT DEFLECTION IS PERMITTED AS WELL AS 1° MAX LONGITUDINAL PIPE DEFLECTION FOR A TOTAL OF 2° MAX DEFLECTION. THE JOINT MUST BE RESTRAINTED IF THE PIPE IS TO BE LONGITUDINALLY DEFLECTED.
- 16. NOTIFY MISS UTILITY 1-800-282-8555 THREE WORKING DAYS, BUT NO MORE THAN 10 WORKING DAYS, PRIOR TO ANY EXCAVATION OR DEMOLITION ACTIVITIES.
- 17. ALL WORK MUST BE COORDINATED WITH TIDEWATER UTILITIES PRIOR TO EXECUTION OF WORK.
- 18. ADJUST ALL VALVE BOXES TO FINAL GRADE.
- 19. ALL ABANDONED WATER MAIN, TO BE PLUGGED AND CAPPED IN PLACE (GROUTING MAY ALSO BE REQUIRED PER OWNERS REQUEST). VALVES SHUT AND VALVE BOXES AND HYDRANTS REMOVED.
- 20. ALL EXISTING WATER MAIN SHALL REMAIN ACTIVE UNTIL SUCH TIME AS NEW WATER MAIN IS APPROVED FOR OPERATION BY DHSS-OFFICE OF DRINKING WATER AND NEW SERVICES CAN BE ACTIVATED.
- 21. CONTRACTOR SHALL MARK ALL EASEMENTS AND RIGHTS OF WAY PRIOR TO WORK.
- 22. PROPOSED WORK AT CONNECTION POINTS TO STAY WITHIN EASEMENTS AND RIGHTS OF WAY.
- 23. PIPE FITTINGS SHOWN IN THIS PLAN ARE APPROXIMATE, ADDITIONAL FITTINGS THAT MAY BE REQUIRED DURING CONSTRUCTION ARE INCIDENTAL TO THE CONTRACT AND THE RESPONSIBILITY OF THE CONTRACTOR.

	LEGEND
	UTILITY TEST HOLE LOCATION
F.Ḩ.	EXISTING FIRE HYDRANT
W.M.	EXISTING WATER METER
W.V.	EXISTING WATER VALVE
F.H. ◆	PROPOSED FIRE HYDRANT
W.M.	PROPOSED WATER METER
8	PROPOSED WATER VALVE

WATER RELOCATION PROJECT NOTES:

- CONSTRUCTION DEWATERING
 - a. ALL DEWATERING EQUIPMENT SUCH AS PUMPS, AIR COMPRESSORS, GENERATORS, ETC. PROPOSED FOR USE DURING CONSTRUCTION IN RESIDENTIAL AREAS SHALL BE PROVIDED WITH NOISE ENCLOSURES. ALL COSTS INCIDENTAL TO ITEM 710500.
 - THERE IS NO DEWATERING PERMIT FOR THIS PROJECT. IF THE CONTRACTOR CONSIDERS THAT AS PART OF ITS MEANS AND METHODS OF CONSTRUCTION, A DEWATERING PERMIT IS REQUIRED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SECURE THE REQUIRED PERMIT IN ORDER TO PROCEED WITH THE EXECUTION OF THE CONSTRUCTION. CONTRACTORS REQUIRED TO SUBMIT DEWATERING PLAN. ALL COSTS INCIDENTAL TO ITEM 710500.
- 2. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND IMPROVEMENTS NOT DESIGNATED FOR REMOVAL AND SHALL RESTORE DAMAGED OR TEMPORARILY RELOCATED UTILITIES AND IMPROVEMENTS TO A CONDITION EQUAL TO OR BETTER THAN THEY WERE PRIOR TO SUCH DAMAGE OR TEMPORARY RELOCATION, ALL IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS AND DEPTHS OF ALL UTILITIES SHOWN AND THE CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS OF ALL UTILITIES THAT MAY INTERFERE WITH THE WORK. ALL SUCH EXPLORATORY EXCAVATIONS SHALL BE PERFORMED AS SOON AS PRACTICABLE AFTER AWARD OF CONTRACT AND, IN ANY EVENT, A SUFFICIENT TIME IN ADVANCE OF CONSTRUCTION TO AVOID POSSIBLE DELAYS TO THE CONTRACTOR'S WORK. WHEN SUCH EXPLORATORY EXCAVATIONS SHOW THE UTILITY LOCATION AS SHOWN TO BE IN ERROR, THE CONTRACTOR SHALL SO NOTIFY TIDEWATER AND DELDOT. ALL COSTS INCIDENTAL TO 710500.
- 4. THE CONTRACTOR MAY BE REQUIRED TO COORDINATE THE BRACING OF UTILITY POLES WITH THE UTILITY OWNER. ANY REQUIRED ELECTRICAL OUTAGES SHALL BE INCLUDED IN THE CONTRACTOR'S CPM SCHEDULE AND ARE INCIDENTAL TO THE WORK BEING PERFORMED. THE CONTRACTOR WILL BE WORKING IN CLOSE PROXIMITY TO EXISTING OVERHEAD UTILITIES AND PROPER EQUIPMENT SHALL BE UTILIZED TO AVOID IMPACTS TO THE EXISTING FACILITY. ALL COSTS ARE INCIDENTAL TO THE CONTRACT AND WILL NOT BE CONSIDERED FOR ADDITIONAL TIME EXTENSIONS OR CAUSE FOR CONTRACT DELAY OR ADDITIONAL COMPENSATION.
- CONTRACTOR SHALL INSTALL THRUST BLOCKS PER TIDEWATER STANDARDS AND ALL COSTS ARE INCIDENTAL TO ITEM 710500.
- CONTRACTOR MAY BE REQUIRED TO MODIFY THRUST BLOCKS AS DETERMINED BY THE ENGINEER AND OWNER IN THE FIELD.
- 7. REMOVAL OF EXISTING CONCRETE THRUST BLOCKS ARE INCIDENTAL TO ITEM 710500.
- CONTRACTOR SHALL STAKE ELEVATION AND LOCATION OF PROPOSED WATER LINE FOR APPROVAL BY ENGINEER PRIOR TO INSTALLATION. CONTRACTOR SHALL AS-BUILT INSTALLED WATER LINE AT THE END OF EACH WORK DAY. ALL COSTS ARE INCIDENTAL TO ITEM 710500.

	INDEX OF WATER MAIN RELOCATION DRAWINGS
SHEET	NAME
TW-01	NOTE SHEET
TW-02	SEQUENCE OF CONSTRUCTION AND SCHEDULES
TW-03	PLAN SHEET INDEX
TW-04	TIDEWATER RELOCATION PLANS
TW-05	TIDEWATER RELOCATION PLANS
TW-06	DETAIL SHEET
TW-07	DETAIL SHEET

EXISTING UNDERGROUND UTILITIES COORDINATION NOTES:

- THE LOCATION OF UNDERGROUND UTILITIES AS INDICATED ON PLANS HAS BEEN OBTAINED FROM INFORMATION SUPPLIED BY DELDOT. NEITHER THE OWNER OR THE ARCHITECT/ENGINEER ASSUMES ANY RESPONSIBILITY WHATEVER IN RESPECT TO ACCURACY, COMPLETENESS, OR SUFFICIENCY OF THE INFORMATION SHOWN. THERE IS NO GUARANTEE, EITHER EXPRESSED OR IMPLIED THAT THE LOCATIONS, SIZE AND TYPE OF MATERIALS OF EXISTING UNDERGROUND UTILITIES INDICATED ARE REPRESENTATIVE OF THOSE TO BE ENCOUNTERED DURING CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH UTILITIES, INCLUDING SERVICE CONNECTIONS TO UNDERGROUND UTILITIES. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER OF HIS OPERATIONAL PLANS. IN THE EVENT OF AN UNEXPECTED UTILITY INTERFERENCE DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. ANY SUCH MAINS AND/OR SERVICES DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE RESTORED IMMEDIATELY AT THEIR EXPENSE.
- PRIOR TO PERFORMING ANY EXCAVATION GREATER THAN 6 INCHES, THE CONTRACTOR SHALL COORDINATE WITH TIDEWATER UTILITIES AND ALL PRIVATE UTILITY COMPANIES TO DETERMINE THE LOCATION OF UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL ORGANIZATIONS THAT CONTROL EXISTING UNDERGROUND UTILITIES IN THE CONSTRUCTION AREA OR WOULD BE AFFECTED BY CONSTRUCTION WORK AROUND THE EXISTING UTILITIES.
- THE CONTRACTOR SHALL NOT START EXCAVATION UNTIL ALL UTILITY LINE LOCATIONS HAVE BEEN STAKED OR OTHERWISE CLEARLY MARKED AND DOCUMENTATION FURNISHED TO THE OWNER. ALL MARKINGS SHALL BE CONSIDERED APPROXIMATE, AND UTILITIES OTHER THAN THOSE SHOWN SHALL BE CONSIDERED TO EXIST.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEFINITE LOCATION OF EACH UTILITY WITHIN THE WORK AREA. CARE SHALL BE EXERCISED DURING EXCAVATION WORK TO AVOID DAMAGING OR DISRUPTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF REPAIR FOR DAMAGE TO ANY UTILITY CAUSED BY THE CONTRACTOR'S WORK.
- WHERE EXISTING UNDERGROUND UTILITIES OR OTHER CONSTRUCTION ARE EXPECTED TO BE IN PROXIMITY TO PROPOSED CONSTRUCTION, OR WHEN APPROACHING EXISTING UTILITIES OR STRUCTURES FOR CONNECTIONS, THE CONTRACTOR SHALL DIG TEST PITS TO DETERMINE THE EXACT LOCATION AND INVERTS OF THE EXISTING UTILITY TO ALLOW FOR POSSIBLE CHANGES TO THE PROPOSED UTILITY IN LINE AND/OR GRADE. THE CONTRACTOR SHALL ALSO DIG TEST PITS IN THE LOCATION OF THE PROPOSED CONNECTIONS TO EXISTING UTILITIES AND SHALL MAKE ALL MEASUREMENTS NECESSARY TO ENSURE PROPER CONNECTION. ANY NECESSARY CHANGES IN LINE OR GRADE OF WORK CAUSED BY FAILURE TO TAKE SUCH PRECAUTIONS SHALL BE AT THE EXPENSE OF THE CONTRACTOR. ALL COSTS ARE INCIDENTAL TO 710500.
- WHEN IT IS NECESSARY TO EXCAVATE NEAR OR INTERFERE WITH ANY SEWER LINE, WATER SERVICES, DRAIN PIPE, CATCH BASIN, CULVERT, OR OTHER STRUCTURES, THE CONTRACTOR SHALL MAINTAIN THE SAME IN WORKING ORDER AND SHALL REPAIR AND MAKE GOOD ANY DAMAGE DONE DURING THE PROGRESS OF THE WORK AT THE EXPENSE OF THE CONTRACTOR.
- WHERE EXISTING UTILITIES CROSS THE TRENCH EXCAVATION, THEY SHALL BE ADEQUATELY SUPPORTED AND PROTECTED FROM DAMAGE DUE TO CONSTRUCTION. ALL METHODS FOR SUPPORTING AND MAINTAINING THESE UTILITIES SHALL BE SUBJECT TO REVIEW BY THE UTILITY OWNER. CARE SHALL BE TAKEN TO ENSURE THAT THE EXISTING UTILITY GRADES AND ALIGNMENT ARE MAINTAINED AND THE PIPE JOINTS ARE NOT DISTURBED. BACKFILL SHALL BE CAREFULLY PLACED AND TAMPED TO PREVENT DAMAGE OR FUTURE SETTLEMENT. ANY DAMAGE OR MISALIGNMENT OF THE UTILITIES DUE TO CONSTRUCTION OR SETTLEMENT SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. ALL COSTS FOR SUPPORTING OR BRACING UTILITIES UNDERGROUND OR AERIAL ARE INCIDENTAL TO ITEM 710500.
- ANY UNPROTECTED CABLE (DIRECT BURIED) ENCOUNTERED THAT IS VERIFIED AS NOT ABANDONED IN PLACE SHALL BE PROTECTED. THE UTILITY OWNER MAY DIRECT THE CABLE BE PLACED IN SPLIT DUCT OF APPROPRIATE SIZE AND CONCRETE ENCASED THROUGH THE AREA OF CONSTRUCTION. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO AVOID HAVING TO CUT AND SPLICE DIRECT BURIED CABLE. THE CONTRACTOR SHALL NOTE SPLIT DUCT PORTIONS ON AS-BUILTS. ALL COSTS ARE INCIDENTAL TO THE ITEM BEING PLACED THAT NECESSITATED THE UTILITY PROTECTION.
- ALL SUITABLE EXCESS EXCAVATED MATERIALS SHALL BE USED AS TRENCH BACKFILL AND ANY EXCESS SHALL BE DISPOSED OF OFFSITE. ALL COSTS FOR EXCAVATION, BACKFILL, BACKFILLING AND DISPOSAL ARE INCIDENTAL TO ITEM 710500.
- INTERRUPTION OF EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR AT THE DIRECTION OF THE UTILITY OWNER(S). PROPER NOTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO INTERRUPTION OF ANY UTILITIES.
- DEC HAS AN EXISTING TRANSMISSION LINE UNDER ROBINSONVILLE ROAD NEAR STATION 217+00 +/-. TEST HOLE INFORMATION HAS BEEN PROVIDED IN THIS AREA OUTSIDE OF THE EDGE OF PAVEMENT AND CAN BE FOUND ON THE CONSTRUCTION PLAN SHEET. THE PROPOSED 18" CASING PIPE AND 12" WATER MAIN IS PROPOSED TO CROSS PERPENDICULAR TO THE DEC TRANSMISSION LINE IN THIS AREA. THE CONTRACTOR SHALL WORK AROUND THE EXISTING TRANSMISSION LINE TO SAFELY INSTALL THE PROPOSED WATER.

TW-01 CONTRACT SECTION N/A BRIDGE NO. T202400902 TIDEWATER RELOCATION PLANS DESIGNED BY: DFS **NOTES SHEET** COUNTY SHEET NO. CHECKED BY: AJ SUSSEX

- 3. THE OUTLINED SEQUENCE OF CONSTRUCTION DOES NOT INCLUDE ALL ITEMS NECESSARY TO COMPLETE THE WORK BUT IS INTENDED TO IDENTIFY THE SEQUENCE OF CRITICAL EVENTS NECESSARY TO MINIMIZE ANY DISRUPTIONS AND TO AVOID ANY IMPACT TO CONTINUED SYSTEM SERVICE. IT SHALL BE UNDERSTOOD BY THE CONTRACTOR THAT THE CRITICAL EVENTS IDENTIFIED ARE NOT ALL INCLUSIVE AND THAT ADDITIONAL ITEMS OF WORK NOT SHOWN MAY BE REQUIRED. THE SEQUENCE OF CONSTRUCTION IS A PRECEDENCE REQUIREMENT AND DOES NOT ATTEMPT TO SCHEDULE THE CONTRACTOR'S WORK. IT IS INTENDED ONLY TO INDICATE WHICH ACTIVITIES MUST PRECEDE OTHER ACTIVITIES IN ORDER TO MINIMIZE INTERFERENCES AND
- 4. AT NO TIME WILL THE CONTRACTOR BE ALLOWED TO DEACTIVATE ANY PORTION OF THE EXISTING WATER SYSTEM BY OPERATING SYSTEM VALVES, PLUGGING OR REMOVING ANY PIPELINES, OR TAKE ANY OTHER ACTION WHICH WOULD AFFECT THE OPERATION OF THE EXISTING SYSTEM, EXCEPT WHEN REQUIRED BY THE CONTRACT DOCUMENTS, AND SPECIFICALLY AUTHORIZED BY TIDEWATER AFTER PROPER NOTIFICATION.
- COMPLETION OF THE WORK IN A GIVEN PHASE COULD OVERLAP WITH COMMENCEMENT OF WORK ON SUBSEQUENT PHASES. HOWEVER, THE WORK ON THE CURRENT SECTION MUST CONTINUE FROM BEGINNING TO END WITHOUT DELAY OR INTERRUPTION, INCLUDING THE ITEMS LISTED ABOVE.
- 6. SPECIFIC PHASING SCHEME WILL NOT BE DICTATED BY THE CONTRACT. HOWEVER, PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A PLAN FOR SEQUENCING THE PROJECT SECTIONS.
- 7. CONSTRUCTION CONSTRAINTS: CONTRACTOR SHALL COMPLY WITH THE FOLLOWING CONSTRAINTS DURING CONSTRUCTION AND UTILIZE CONSTRAINTS IN DETERMINING A SEQUENCE OF CONSTRUCTION:
- A. CONSTRUCTION WORK DURING THE INSTALLATION OF THE PROPOSED WORK SHALL BE LIMITED TO THE PUBLIC RIGHT-OF-WAY. HOMEOWNERS SHALL HAVE ACCESS TO THEIR DRIVEWAYS AND PROPERTIES AT ALL TIMES.
- B. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED MAINTENANCE OF TRAFFIC PLANS.
- C. FINAL RESTORATION OF ROADS, DRIVEWAYS, SIDEWALKS AND ALL OTHER PAVED AREAS SHALL BE COMPLETED AS DIRECTED BY DELDOT.
- D. CONTRACTOR IS EXPECTED TO WORK ON THE WATERLINE DURINGTHE REGULAR HOURS OF TIDEWATER'S INSPECTORS UNLESSSPECIFIC REQUIREMENTS IN THE CONTRACT DOCUMENTS REQUIRE WORK OUTSIDEOF THOSE HOURS. TIDEWATERINSPECTOR'S REGULAR HOURS ARE 7:00AM TO 4:00PM, MONDAYTHROUGH FRIDAY, EXCLUDING HOLIDAYS. REQUESTS FOR APPROVAL TO WORK DURING OTHER THAN REGULAR HOURS MUSTBE SUBMITTED TO DELDOT AT LEAST 72 HOURS IN ADVANCE OFTHE PERIOD PROPOSED FOR SUCH OVERTIME WORK AND SHALL SET FORTH THE PROPOSED SCHEDULE FOR OVERTIME.

OPERATION REQUIREMENTS

- MOBILIZATION / SITE PREPARATION: MOBILIZE FOR WORK, VIDEO WORKING AREAS, SET UP STAGING AND STORAGE AREAS, OBTAIN PERMITS, DEVELOP AND SUBMIT CONSTRUCTION SCHEDULE, SUBMIT SHOP DRAWING SCHEDULE, SURVEY, LOCATE EXISTING UTILITIES AND ELEVATIONS WITH TEST PITS, VERIFY EXISTING FITTINGS TO BE CONNECTED, SHOP DRAWING SUBMITTALS, AND PROCURE MATERIALS.
- CONSTRUCTION OF THE WATER SYSTEM: TASKS CONSIST OF THE INSTALLATION OF PROPOSED IMPROVEMENTS AS DESCRIBED IN THE APPROVED CONSTRUCTION DOCUMENTS.
- 3. PHASING OF THE WORK IS OF PARTICULAR IMPORTANCE. CONSTRUCTION SHALL BE COMPLETED IN SECTIONS, WITH EACH SECTION OF CONSTRUCTION TO BE COMPLETED BEFORE PERFORMING WORK IN ANOTHER SECTION. INCLUDING BUT NOT LIMITED TO:
 - INSTALLATION OF WATER MAINS, HYDRANTS, SERVICES AND APPURTENANCES
 - BACKFILL, COMPACTION AND TRENCH RESTORATION
 - WATER MAIN TESTING AND DISINFECTION
 - WATER MAIN AND FIRE HYDRANTS ACCEPTANCE, PLACING IN SERVICE AND ESTABLISHING ALL SERVICE CONNECTIONS.
 - REMOVAL AND ABANDONMENT OF EXISTING FACILITIES, AS NEEDED.
 - TIE NEW MAIN INTO EXISTING MAIN AS NECESSARY AFTER ODW APPROVAL.
 - SITE CLEAN-UP AND RESTORATION
 - OPENING ROADS TO TRAFFIC

DETAILED SEQUENCE OF CONSTRUCTION

THE OUTLINED SEQUENCE OF CONSTRUCTION DOES NOT INCLUDE ALL ITEMS NECESSARY TO COMPLETE THE WORK BUT IS INTENDED TO IDENTIFY THE SEQUENCE OF CRITICAL EVENTS NECESSARY TO MINIMIZE ANY DISRUPTIONS AND TO AVOID ANY IMPACT TO CONTINUED COLLECTION SYSTEM SERVICE.

WATER SECTION 1 ANGOLA ROAD & ROBINSONVILLE ROAD

- CLOSE EXISTING 12-INCH VALVE IN PROXIMITY TO EXISTING 12-INC PVC STUB LOCATED AT APPROXIMATE STATION 226+10.
- 2. INSTALL NEW 12-INCH WATER LINE FROM STATION 226+10 (ROBINSONVILLE ROAD) TO 219+45.
- INSTALL, BY HORIZONTAL DIRECTIONAL DRILL, THE 12-INCH WATER MAIN FROM APPROXIMATE STATION 219+45 TO APPROXIMATE STATION 213+20.
- INSTALL NEW 12-INCH WATER LINE BY OPEN-CUT METHOD FROM APPROXIMATE STATION 213+20 TO APPROXIMATE STATION 212+80.
- 5. INSTALL 12-INCH VALVE, REPLACE THE EXISTING FIRE HYDRANT WITH A NEW FIRE HYDRANT AND INSTALL BLOW-OFF ASSEMBLY AT APPROXIMATE STATION 212+75.
- PERFORM ALLOWABLE LEAKAGE TEST AND BACTERIA TEST PER THE LATEST AWWA SPECIFICATIONS
- 7. DEPRESSURIZE AND OPEN EXISTING VALVE IN PROXIMITY TO STATION 226+10.

NEW FIRE HYDRANT INSTALLATIONS ALONG ROBINSONVILLE ROAD(277)

1. INSTALL NEW FIRE HYDRANT ASSEMBLY AT STATION 331+95.

WATER MAIN ITEM SCHEDULE									
SECTION DESIGNATION	ITEM NUMBER	PIPE SIZE AND TYPE	LENGTH	CASING	TOP OF PIPE EL OUT	TOP OF PIPE EL OUT	REQUIRED HYDRANTS, VALVES, AND APPURTENANCES		
W-1 STATION 212+75 (ANGOLA ROAD) TO STATION 226+10 (ROBINSONVILLE ROAD)	710500	12" PVC *12" FPVC	723 LF *592 LF	*16" FPVC @ 337 FT	4' BELOW PR GRADE	4' BELOW PR GRADE	1 EA, FIRE HYDRANT ASSEMBLY 1 EA, 12", VALVE 2 EA, TIE INTO EXISTING 1 EA, FIRE HYDRANT RELOCATION 1 EA, CAP/ABANDON IN PLACE EXIST. 1 EA, TEMPORARY BLOW OFF		

*DELDOT TO FURNISH THE 12" FPVC & 16" FPVC CASING FOR THIS CONTRACT. THE CONTRACTOR SHALL INSTALL.

QUANTITY SUMMARY		
ITEM NUMBER	DESCRIPTION	QUANT ITY
710500	INSTALLATION OF WATER MAIN & ACCESSORIES	LS

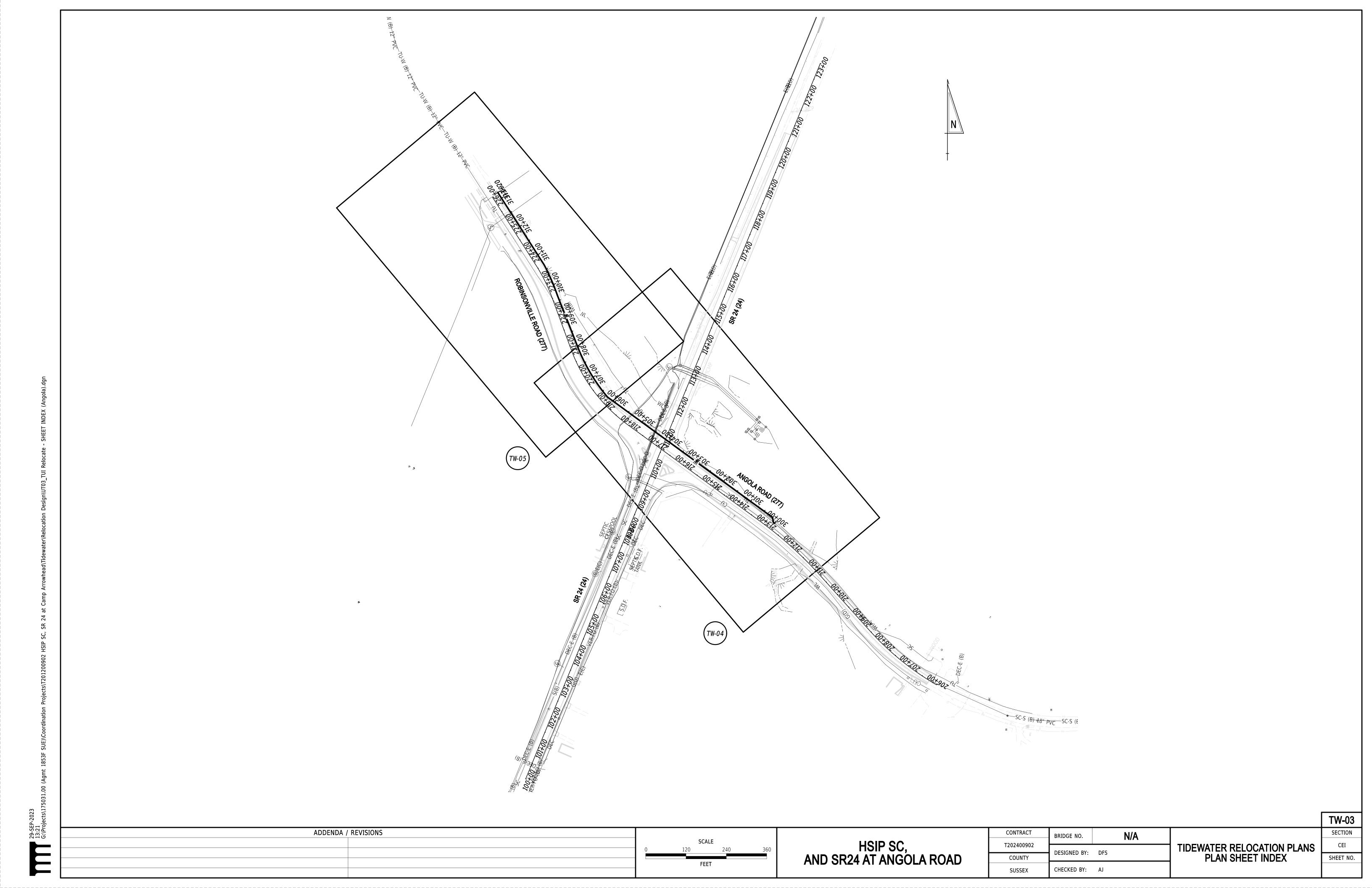
ADDENDA / REVISIONS

HSIP SC, **AND SR24 AT ANGOLA ROAD**

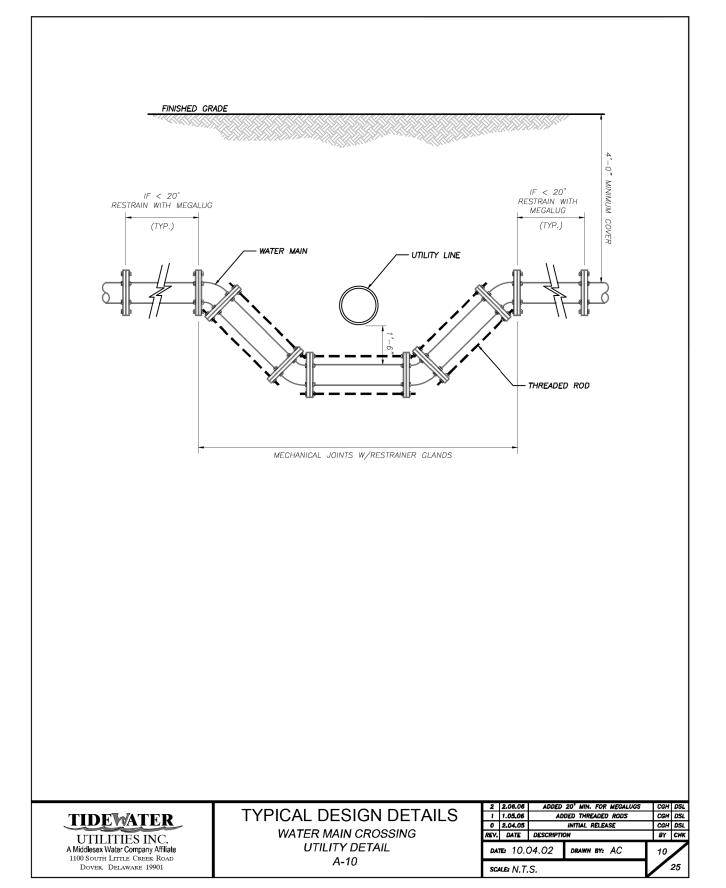
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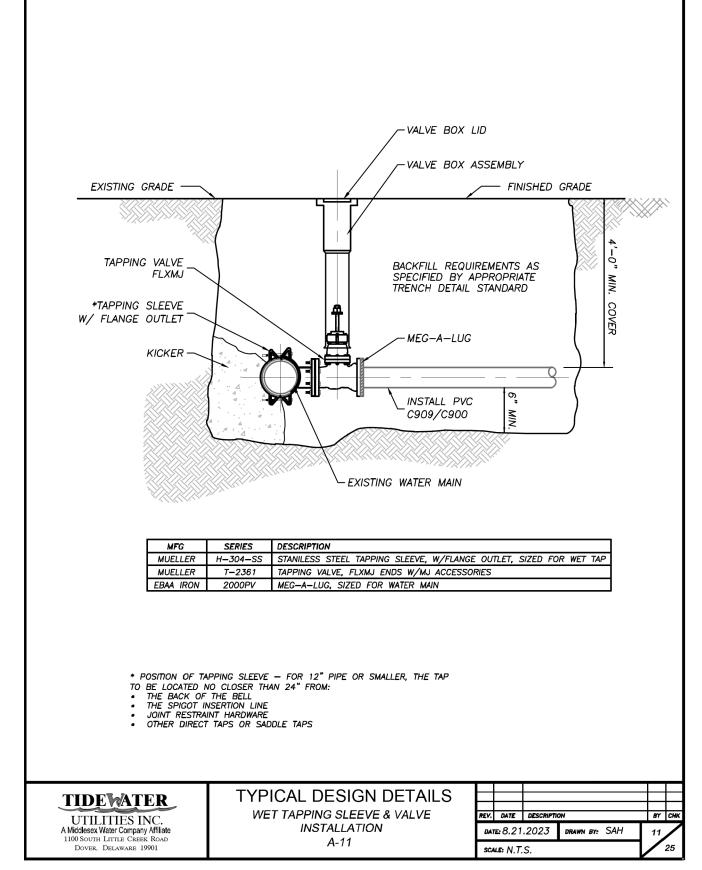
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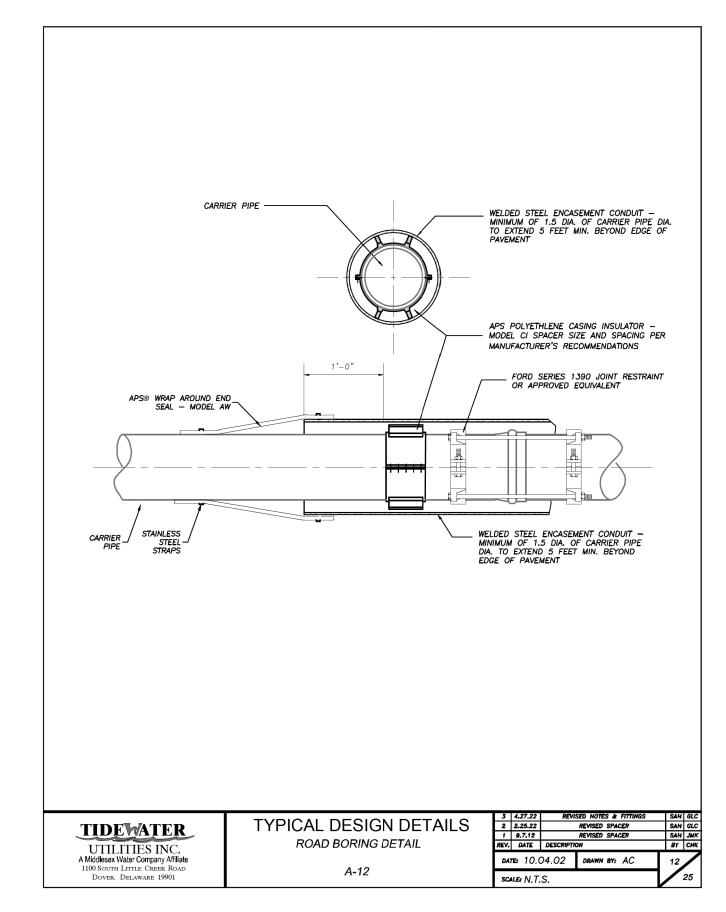
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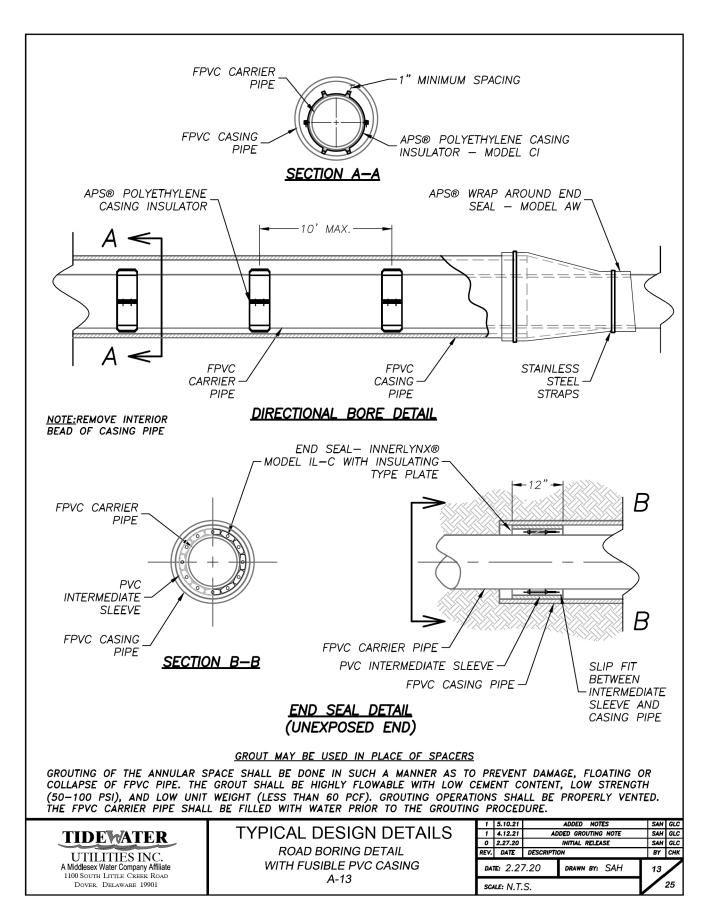


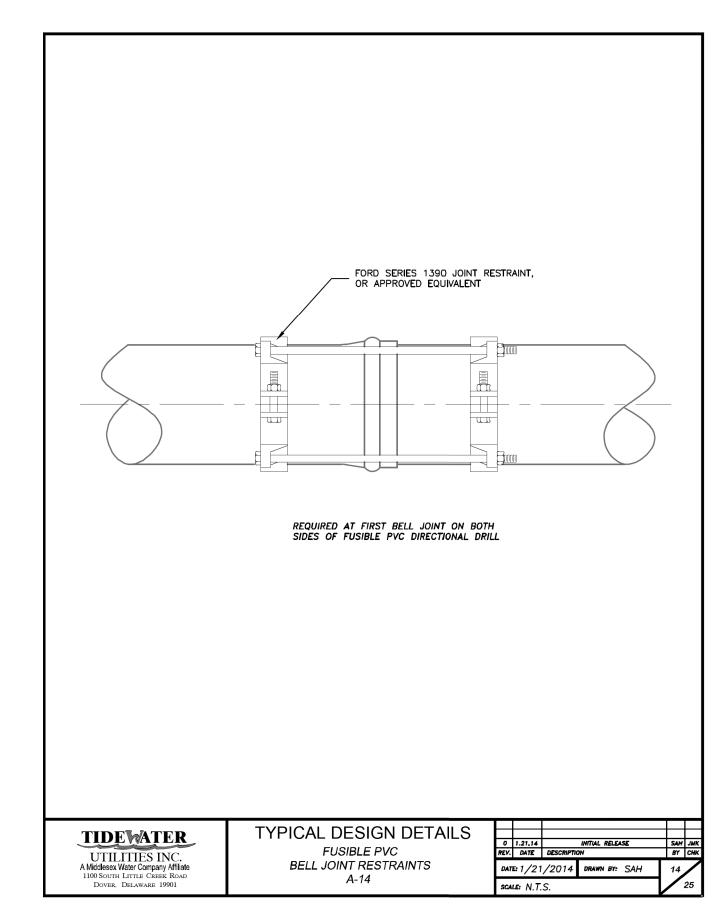
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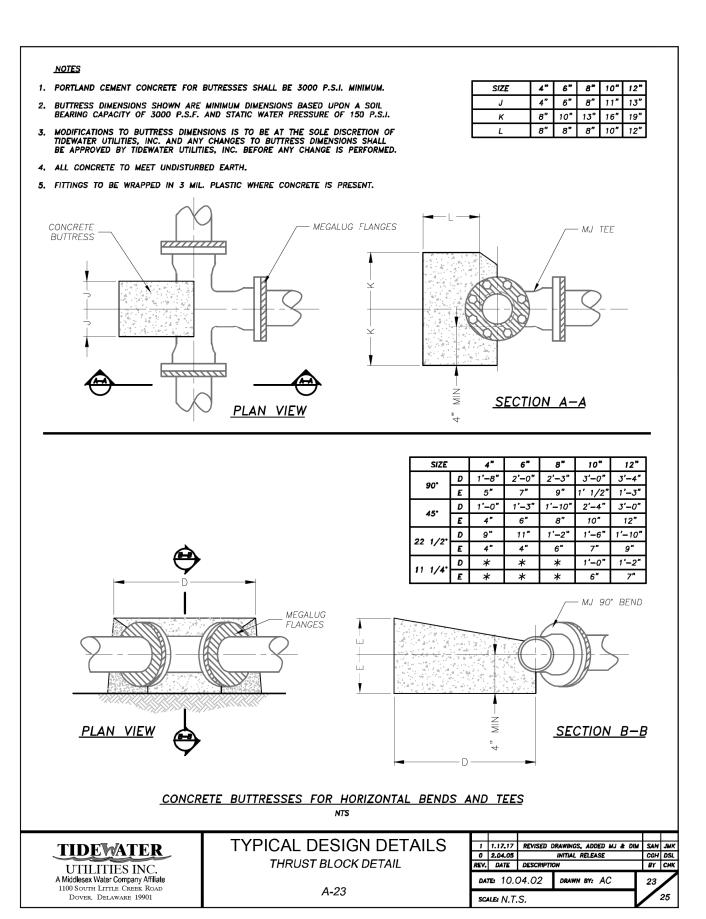


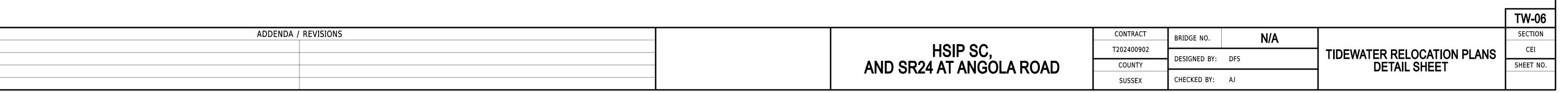


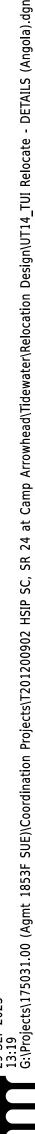


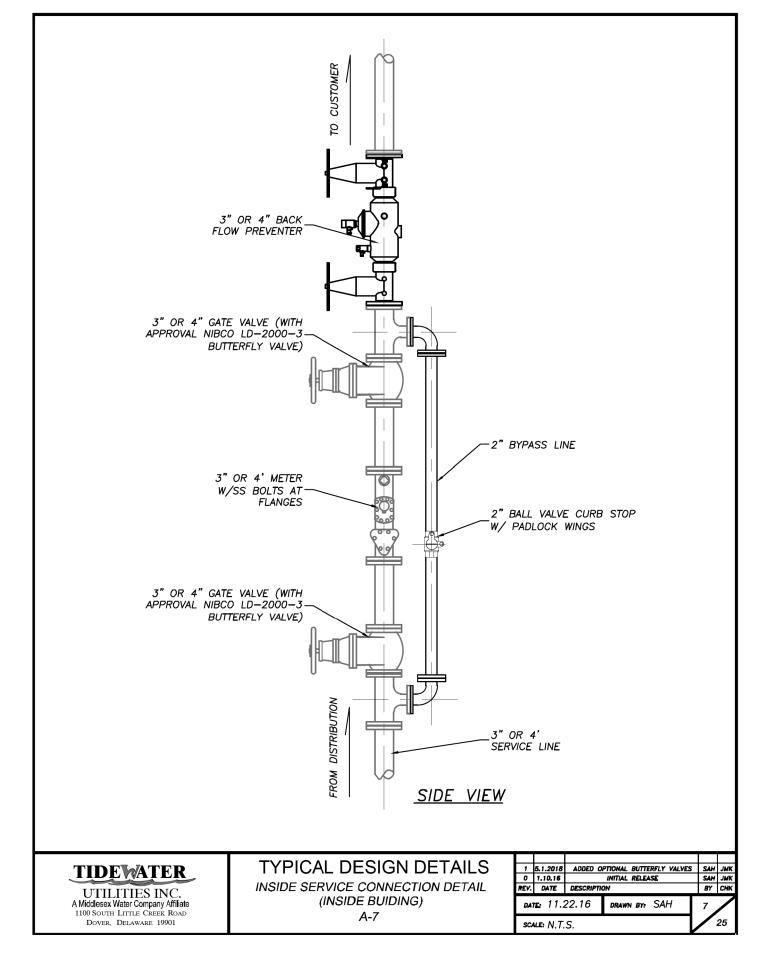


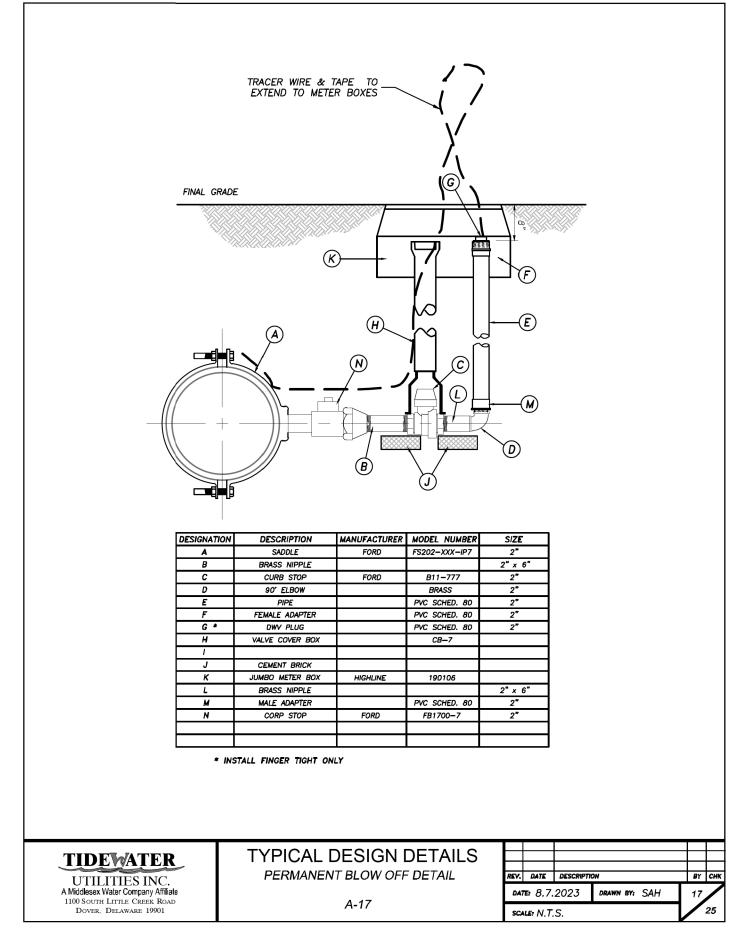


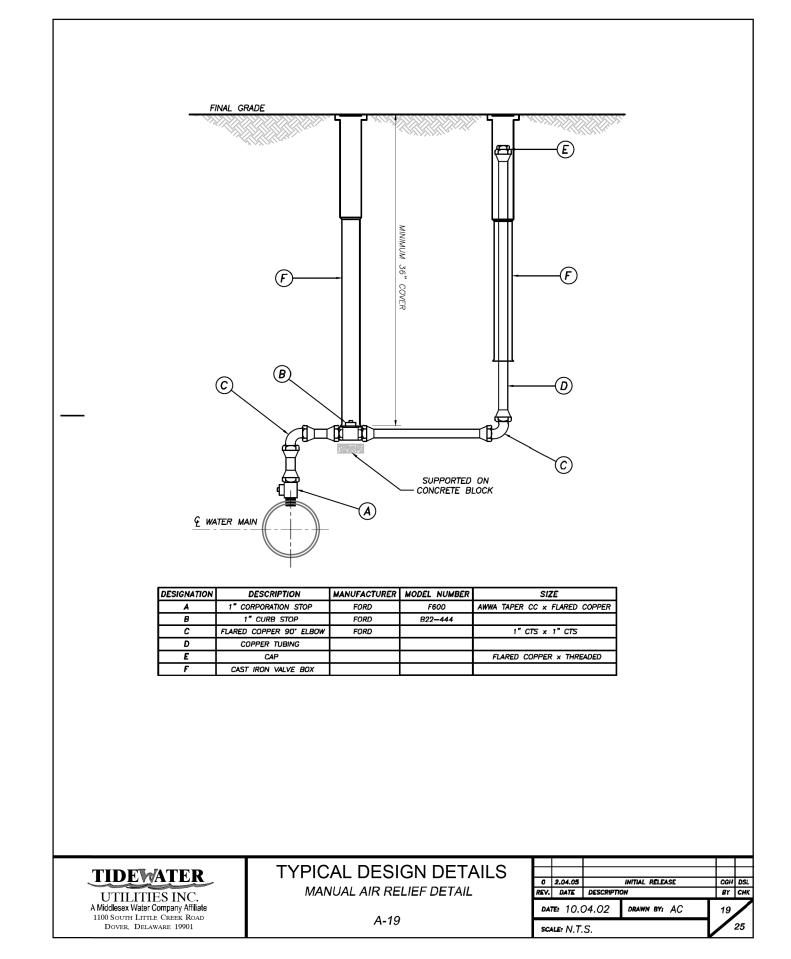


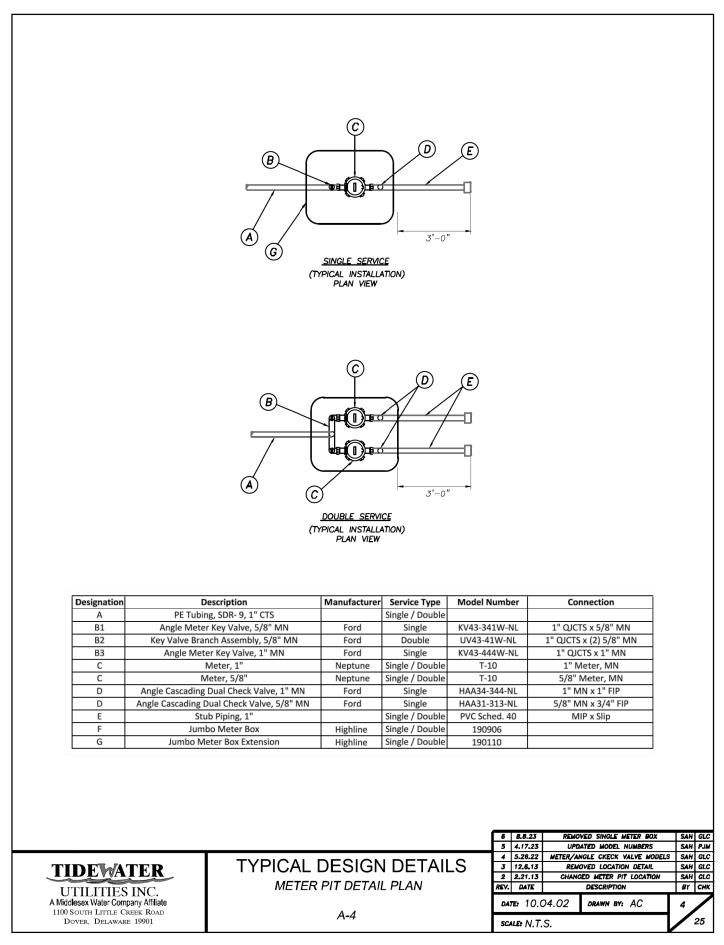




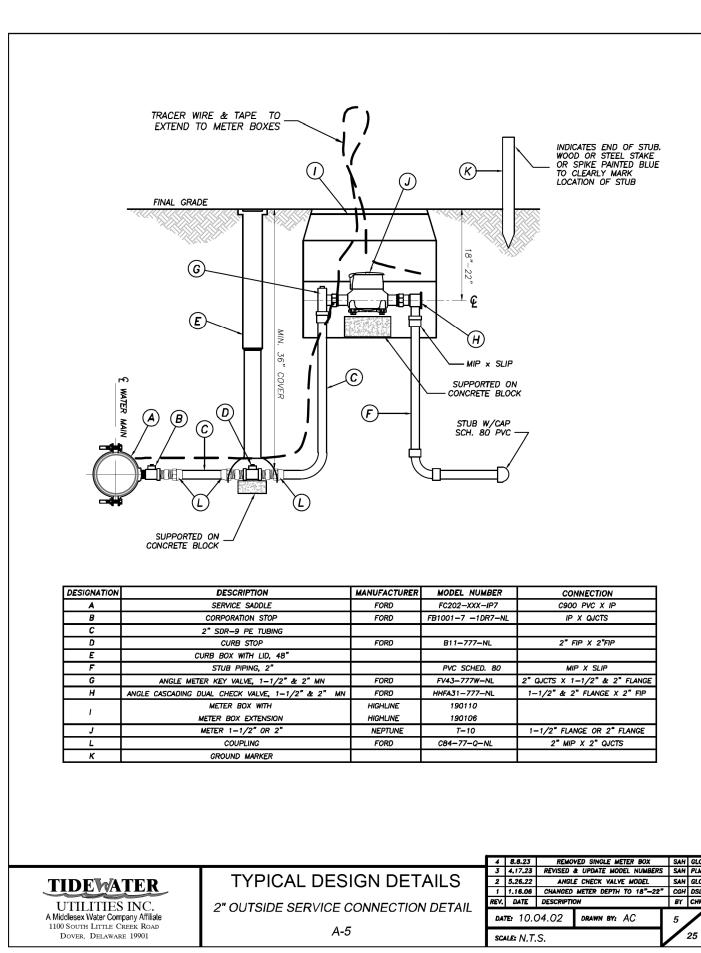


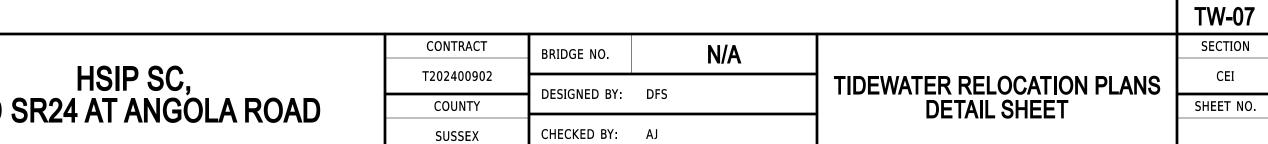






ADDENDA / REVISIONS





HSIP SC, AND SR24 AT ANGOLA ROAD