

TOWN OF VERNON, CONNECTICUT
EXIT 67
SEWER EXTENSION PROJECT
CONTRACT NO. 2135
JANUARY 2024



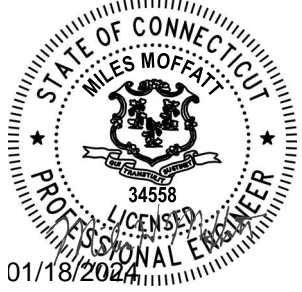
LOCATION MAP
SCALE: 1" = 500'

FORM 818 NOTES

1. CONSTRUCTION SPECIFICATIONS FOR WORK WITHIN THE STATE RIGHT-OF-WAY SHALL BE THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 818, DATED 2020; SUPPLEMENTAL SPECIFICATIONS, DATED JULY 2022 AND ALL SUPPLEMENTS THERETO; AND SPECIAL PROVISIONS.
2. REMOVAL OF PAVEMENT MARKINGS ALONG STATE ROADWAYS SHALL BE COMPLETED BY A NON-DESTRUCTIVE METHOD IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 818, SECTION 12.11.
3. NEW PAVEMENT MARKINGS SHALL BE PAINTED WITH EPOXY RESIN PAINT IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 818, SECTION 12.10.
4. NEW SIGN MATERIAL AND SHEETING SHALL BE MADE OF REFLECTIVE MATERIAL IN COMPLIANCE WITH THE STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES, AND INCIDENTAL CONSTRUCTION FORM 817, SECTION 12.08. TYPE 1 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH WHITE BACKGROUND, TYPE 3 REFLECTIVE SHEETING SHALL BE USED FOR SIGNS WITH COLORED BACKGROUND EXCEPT FOR SIGNS WITH RED BACKGROUND THAT SHALL BE TYPE 8 OR 9 REFLECTIVE SHEETING.
5. ALL SIGNS AND PAVEMENT MARKINGS INSTALLED ALONG THE STATE ROAD MUST CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," LATEST STATE OF CONNECTICUT CATALOGUE OF SIGNS AND STANDARDS, AS REVISED.
6. ANY DAMAGE TO EXISTING CURB, SIDEWALK, OR ANY OTHER HIGHWAY APPURTENANCES DURING THE DEVELOPMENT OF THE PERMITTED SITE WILL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE DISTRICT 3 PERMIT SECTION AT NO COST TO THE STATE.
7. ALL WORK WITHIN THE STATE RIGHT-OF-WAY WILL COMPLY STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROADS, BRIDGES AND INCIDENTAL CONSTRUCTION, FORM 818 WITH THE LATEST SPECIAL PROVISIONS AND STANDARD STATE STANDARD DETAILS.
8. FORMATION OF SUBGRADE SHALL BE IN ACCORDANCE WITH SECTION 2.09 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818.
9. SUBBASE SHALL BE PROVIDED IN ACCORDANCE WITH SECTION 2.12 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818.
10. HMA SHALL BE SUPERPAVE ASPHALT AND BE PROVIDED IN ACCVORDANCE WITH SECTIONB 4.06 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818.
11. TACK COAT MATERIAL SHALL BE PROVIDED IN SCCORDANCE WITH SECTION 4.06 OF THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818.
12. BITUMINOUS CONCRETE LIP CURBING SHALL BE PROVIDED IN ACCORDANCE WITH THE CONNECTICUT DEPARTMENT OF TRANSPORTATION FORM 818.

PREPARED BY:

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PREPARED FOR:

TOWN OF VERNON, CONNECTICUT

COMPLETE SET 62 SHEETS

Last Saved: 1/16/2024
Plotted On: Jan 16, 2024 4:15:07pm By: Santonek
File & Save: 2:11:00 PM V0037 - Exit 67 Sewer Extension Design Drawings AutoCAD Sheet V0037-017-G-002.dwg

LIST OF DRAWINGS		
SHEET NO.	DRAWING NO.	DRAWING TITLE
GENERAL		
1	G-001	COVER SHEET
2	G-002	GENERAL NOTES, LEGEND, AND ABBREVIATIONS
3	G-003	INDEX PLAN
CIVIL		
4	C-101	SANITARY SEWER PLAN AND PROFILE - SOUTH GROVE STREET
5	C-102	SANITARY SEWER PLAN AND PROFILE - SUNRISE DRIVE
6	C-103	SANITARY SEWER PLAN AND PROFILE - RESERVOIR ROAD - 1
7	C-104	SANITARY SEWER PLAN AND PROFILE - RESERVOIR ROAD - 2
8	C-105	SANITARY SEWER PLAN AND PROFILE - RESERVOIR ROAD - 3 MILE HILL ROAD
9	C-106	SANITARY SEWER PLAN AND PROFILE - RESERVOIR ROAD - 4
10	C-107	SANITARY SEWER PLAN AND PROFILE - GREEN ROAD
11	C-108	SANITARY SEWER PLAN AND PROFILE AT PUMP STATION SITE
12	C-201	GENERAL NOTES & DETAILS - 1
13	C-202	GENERAL NOTES & DETAILS - 2
14	C-203	GENERAL NOTES & DETAILS - 3
15	C-204	CT DOT PAVEMENT REPAIR DETAILS
16	C-205	C.C.M. PIPE INSTALLATION DETAILS
17	C-230	PUMP STATION SITE PLAN
LANDSCAPE		
18	L-100	LANDSCAPE PLAN
ARCHITECTURAL		
19	A-201	BUILDING ELEVATIONS
20	A-501	DOOR SCHEDULE AND DETAILS
STRUCTURAL		
21	S-001	STRUCTURAL NOTES AND DETAILS
22	S-002	STRUCTURAL DESIGN LOADS AND DETAILS
23	S-101	BUILDING FLOOR PLAN AND FOUNDATION PLAN
24	S-102	PREFABRICATED BUILDING AND FOUNDATION DETAILS
MECHANICAL		
25	M-101	MECHANICAL PLAN AND SECTION
HVAC		
26	H-001	HVAC LEGEND, ABBREVIATIONS, DETAILS, AND NOTES
27	H-101	HVAC PLAN AND SCHEDULES
ELECTRICAL		
28	E-001	ELECTRICAL LEGEND
29	E-100	ELECTRICAL SITE PLAN
30	E-101	ELECTRICAL FLOOR PLAN
31	E-501	PANELBOARD SCHEDULE & ONE-LINE DIAGRAM
32	E-601	ELECTRICAL DETAILS - 1
33	E-602	ELECTRICAL DETAILS - 2
34	E-603	ELECTRICAL DETAILS - 3
35	E-604	ELECTRICAL DETAILS - 4
TEMPORARY TRAFFIC CONTROL		
36-55	T-001 - T020	TEMPORARY TRAFFIC CONTROL PLAN - 1 THROUGH 20
56-57	T-021 - T-022	TEMPORARY TRAFFIC CONTROL TRUCK DETOUR - 1 AND 2
58-60	T-023 - T-025	TEMPORARY TRAFFIC CONTROL DETAIL - 1 THROUGH 3
61-62		CT DOT DETAIL SHEETS

GENERAL NOTES:

1. BASE MAP BASED UPON SURVEY PROVIDED BY MARTIN SURVEYING ASSOCIATES, LLC OF BERLIN, CT. THE SURVEY IS BASED UPON NAD 1983 HORIZONTAL DATUM AND NAVD 1988 VERTICAL DATUM.
2. CONTRACT LIMITS ARE DEFINED AS THE EXISTING RIGHT OF WAY FOR ALL ROADS.
3. CONTRACTOR SHALL NOTIFY "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST 72 HOURS PRIOR TO PERFORMING ANY WORK ON THE SITE.
4. ALL CONSTRUCTION MATERIALS AND METHODS IN THE STATE ROW SHALL CONFORM TO THE CT DEPARTMENT OF TRANSPORTATION'S SPECIFICATION FORM 818. ALL PAVEMENT RESTORATION METHODS WILL BE DISCUSSED WITH THE PERMIT INSPECTOR PRIOR TO RESTORATION.
5. CONTRACTOR SHALL DIG TEST PITS IF NECESSARY TO CONFIRM THE ELEVATION AND LOCATION OF EXISTING UTILITIES THAT MAY CONFLICT WITH THE INSTALLATION OF THE NEW SEWER MAIN AND LATERALS. ADJUST LOCATION/ELEVATION OF SEWER AS NECESSARY TO AVOID CONFLICTS. ALL CHANGES TO DESIGN MUST BE APPROVED BY TOWN OF VERNON. THE TOWN OF VERNON SHALL APPROVE ALL TEST PIT LOCATIONS.
6. ALL DROP MANHOLES SHALL BE CONSTRUCTED WITH AN INSIDE DROP AS SHOWN ON THE DETAIL SHEETS.
7. CONTRACTOR SHALL SUPPORT AND PROTECT EXISTING UTILITIES WHERE NECESSARY IN ACCORDANCE WITH THE REQUIREMENTS OF THE UTILITY OWNER. NOT ALL OVERHEAD WIRES AND POWER LINES ARE SHOWN ON THE DRAWINGS. WHERE CONTRACTOR'S WORK IS WITHIN 5' OF AN EXISTING UTILITY POLE, CONTRACTOR MUST COORDINATE SUPPORTING THE POLES WITH THE APPROPRIATE UTILITY OWNER. ALL COSTS ASSOCIATED WITH UTILITY SUPPORT REQUIREMENTS AND PROTECTION OF FACILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SUCH COST SHALL BE INCLUDED IN THE UNIT PRICE(S) OF OTHER WORK.
8. ALL PAVEMENT INSTALLED SHALL MATCH THE ELEVATION OF THE ADJACENT ROAD SURFACE, AND EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
9. LATERAL LOCATIONS FOR INDIVIDUAL HOUSES ARE APPROXIMATE ONLY. CONTRACTOR SHALL PROVIDE A STAKE AND COORDINATE WITH THE TOWN AND EACH APPLICABLE PROPERTY OWNER TO CONFIRM LATERAL LOCATION PRIOR TO START OF CONSTRUCTION. LATERAL SHALL BE INSTALLED WHERE DIRECTED BY THE TOWN. THE TOWN DIRECTIVE SHALL SUPERSEDE PLAN LOCATION FOR SEWER LATERAL. IF NO DIRECTION IS GIVEN, LATERAL SHALL BE INSTALLED WHERE INDICATED ON THE PLANS.
10. WHILE SPECIFIC LOCATIONS ARE NOT SHOWN ON THE PLANS, THE CONTRACTOR SHALL ASSUME THAT MANY OF THE PROPERTIES IN THE PROJECT AREA HAVE UNDERGROUND SPRINKLER SYSTEM AND/OR ELECTRIC DOG FENCE LINES ALONG THE EDGES OF LAWN AREAS. THIS MAY BE ON PRIVATE PROPERTY OR ON TOWN PROPERTY, AND IT IS LIKELY THAT THESE SYSTEMS MAY BE DISTURBED WHEN THE LATERAL STUB FOR THE PROPERTY IS CONSTRUCTED. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH ALL PROPERTY OWNERS TO ATTEMPT TO LOCATE ANY SPRINKLER/DOG FENCE OR OTHER TYPE OF BURIED UTILITY PRIOR TO THE START OF SEWER/LATERAL CONSTRUCTION IN THE VICINITY OF THEIR PROPERTY. THE TOWN OF VERNON WILL ASSIST IN THIS TASK WHEN POSSIBLE. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE CORRECTION OF ALL DAMAGE WHICH IS CAUSED BY HIS CONSTRUCTION OPERATIONS WHETHER OR NOT HE IS SUCCESSFUL IN LOCATING THE LINES PRIOR TO CONSTRUCTION.
11. SEWER LATERALS SHALL EXTEND TO THE STREET RIGHT OF WAY LINE, OR EDGE OF EASEMENT AS SHOWN ON THE DRAWINGS. WHERE A STONE WALL/HEDGE/SHRUB EXISTS IN THE VICINITY OF THE RIGHT OF WAY LINE, CONTRACTOR SHALL EXTEND THE LATERAL STUB SO THAT IT ENDS ON THE PROPERTY OWNER'S SIDE OF THE RIGHT OF WAY LINE. ALL COSTS ASSOCIATED WITH TUNNELING UNDER OBSTRUCTIONS SHALL BE PAID BY THE CONTRACTOR.
12. ALL 8" GRAVITY SEWER PIPE LENGTHS SHOWN ON PROFILE SHEETS ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE. INVERT ELEVATIONS ARE AT CENTER OF MANHOLE UNLESS SHOWN OTHERWISE.
13. CONTRACTOR SHALL MAKE HIS OWN ARRANGEMENTS FOR STOCKPILE AREAS. NO MATERIALS OR EQUIPMENT SHALL BE STORED OUTSIDE OF THE CONTRACT LIMITS.
14. DRIVEWAYS THAT ARE OBSTRUCTED BY SEWER CONSTRUCTION WORK MUST ALWAYS HAVE FULL ACCESS DURING CONSTRUCTION. ALL STREETS IN THE PROJECT AREA MUST BE FULLY RE-OPENED AT THE END OF EACH WORKDAY. CONTRACTOR SHALL ADVISE AFFECTED PROPERTY OWNERS AT LEAST 5 DAYS IN ADVANCE OF WORK THAT WILL OCCUR THAT MAY AFFECT EXISTING ACCESS.
15. NOT ALL EXISTING ITEMS (INCLUDING TREES, PLANTERS, SHRUBS, FENCES, ETC.) ARE SHOWN ON THE DRAWINGS. HOWEVER, ALL EXISTING ITEMS DAMAGED BY THE CONTRACTOR SHALL BE RESTORED TO THEIR EXISTING CONDITION OR BETTER IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL APPLICABLE SAFETY REGULATIONS IN THE PROJECT AREA.
17. ALL PIPE FOUNDATIONS SHALL BE AS SHOWN ON THE DETAIL FOR A TYPICAL CROSS SECTION UNLESS DIRECTED OTHERWISE BY THE OWNER.
18. NOT ALL OVERHEAD WIRES AND POWER LINES ARE SHOWN ON THE DRAWINGS.
19. THE OWNER RESERVES THE RIGHT TO MODIFY/CHANGE THE DESIGN DURING CONSTRUCTION IF NECESSARY BASED UPON SITE CONDITIONS. CONTRACTORS WILL BE EXPECTED TO FOLLOW OWNER DIRECTIVES AS APPLICABLE.

EXISTING CONDITIONS/DEMOLITION/REPAIR NOTES

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE THEMSELVES WITH THE CONDITIONS OF ALL OF THE PERMIT APPROVALS.
2. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ADDITIONAL PERMITS, NOTICES AND FEES NECESSARY TO COMPLETE THE WORK AND ARRANGE FOR AND PAY FOR NECESSARY INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION AND OFF-SITE DISPOSAL OF MATERIALS REQUIRED TO COMPLETE THE WORK.
4. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAYS WITH THE TOWN OF VERNON, CT.
5. CONTRACTOR SHALL PROTECT ALL PROPERTY MONUMENTATION THROUGHOUT CONSTRUCTION OPERATIONS. SHOULD ANY MONUMENTATION BE DISTURBED BY THE CONTRACTOR, EMPLOY A LICENSED SURVEYOR TO REPLACE IT.
6. THE CONTRACTOR SHALL PAY ALL COSTS NECESSARY FOR TEMPORARY PARTITIONING, BARRICADING, FENCING, SECURITY AND SAFETY DEVICES REQUIRED FOR THE MAINTENANCE OF A CLEAN AND SAFE CONSTRUCTION SITE.

GRADING AND DRAINAGE NOTES

1. CONTRACTOR SHALL PROVIDE FINISH LAWN AREAS FREE OF LOW SPOTS AND PONDING AREAS.

STATE ROAD PAVEMENT RESTORATION AND TRENCH REPAIR NOTES:

1. PRIOR TO INITIAL EXCAVATION TRENCH EDGES SHALL BE SAWCUT TO PROVIDE NEAT CLEAN LINES.
2. COMPACTION OF MATERIALS WITHIN THE TRENCH SHALL BE CONDUCTED IN ACCORDANACE WITH FORM 818 AND THE REQUIREMENT OF THE ENCROACHMENT PERMIT.
3. DURING INSTALLATION OF PROPOSED UTILITIES, TRENCH SHALL BE RESTORED AT THE COMPLETION OF EACH WORKDAY IN ACCORDANCE WITH THE "TEMPORARY PAVEMENT REPAIR FOR TRENCH THROUGH OVERLAID PORTLAND CEMENT CONCRETE OR BITIMINOUS CONCRETE PAVEMENT" DETAIL AS SHOWN ON THE CONNECTICUT DEPARTMENT OF TRANSPORTATION, "ENCROACHMENT PERMIT - PAVEMENT REPAIR" DETAIL SHEET.
4. FOLLOWING THE COMPLETION OF THE INSTALLATION OF THE PROPOSED UTILITY INFRASTRUCTTURE, THE TRENCH SHALL BE PERMANETELY REPAIRED IN ACCORDANCE WITH THE "PERMANENT PAVEMENT REPAIR WITH MILLING" DETAIL AS SHOWN ON THE CONNECTICUT DEPARTMENT OF TRANSPORTATION, "ENCROACHMENT PERMIT - PAVEMENT REPAIR" DETAIL SHEET. THIS INCLUDES SAWCUTTING THE TRENCH A MINIMUM OF 12 INCHES BEYOND THE LIMITS OF THE TEMPORARY TRENCH REPAIR AND INSTALLING THE PERMANENT PAVEMENT SECTION IN ACCORDANCE WITH THE DETAIL. DURING PERMANENT TRENCH REPAIR, THE TRENCH SHALL BE RESTORED TO FINISHED GRADE WITH 9 INCHES OF HMA S1.0 COMPACTED IN THREE EQUAL LIFTS.
5. THE FINAL PAVEMENT RESTORATION SHALL INCLUDE A 2-INCH MILL, LIMITS AS SHOWN ON THE DRAWINGS OR AS DETERMINED BY THE CTDOT PERMIT INVESTIGATOR, AND A 2-INCH OVERLAY WITH HMA S0.5, COMPACTED IN ONE LIFT. EXISTING PAVEMENT SHALL BE TACK COAT IN ACCORDANCE WITH THE DETAILS AND AS REQUIRED IN FORM 818.

LEGEND:

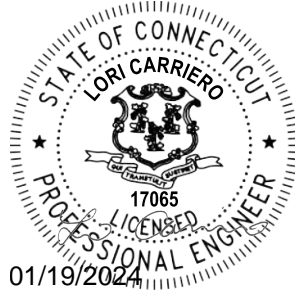
EXISTING SANITARY SEWER MAIN	SS
EXISTING GAS LINE	G
EXISTING TELEPHONE LINE	T
EXISTING SANITARY FORCE MAIN	SFM
EXISTING STORM DRAIN	SD
EXISTING POTABLE WATER MAIN	PW
EXISTING GUARDRAIL	
EXISTING STONE WALL	
EXISTING PROPERTY LINE	
EXISTING WIRE OR CHAIN LINK FENCE	
EXISTING CONTOUR	
EXISTING UTILITY POLE	
EXISTING SIGN	
EXISTING MAILBOX	MB
EXISTING DECIDUOUS TREE	
EXISTING WATER GATE	WG
EXISTING HYDRANT	
EXISTING CATCH BASIN	
EXISTING STORM MANHOLE	
EXISTING SANITARY MANHOLE	
EXISTING TEL-COM HANDHOLE	
PROPOSED SANITARY MANHOLE	
VEGETATED WETLAND LIMIT	
100-FOOT BUFFER ZONE	
30-FOOT SETBACK	
15-FOOT SETBACK	
BORDERING LAND SUBJECT TO FLOODING	
TOP OF BANK	
EROSION CONTROL BARRIER	
GAS PIPING	G
PIPING TO BE DEMOLISHED	XXXXXXXXXXXXXXXXXXXXX
PIPING TO BE ABANDONED IN PLACE	XXXXXXXXXXXXXXXXXXXXX
PROPOSED SANITARY GRAVITY	SS
PROPOSED SANITARY FORCE MAIN	SFM
PROPOSED FENCE	
PHOTOGRAPH	1 ➡
BUILDING	
ITEM TO BE DEMOLISHED	
CATCH BASIN EROSION CONTROL	
BORING	
EROSION AND SEDIMENT CONTROL	

ABBREVIATIONS

ASBESTOS CEMENT	AC
BITUMINOUS CONCRETE CURB	BC
BITUMINOUS CONCRETE SIDEWALK	BIT CONC WALK
BORDERING VEGETATED WETLANDS	BVW
CAST IRON	CI
DUCTILE IRON	DI
FLANGED	FL
FORCE MAIN	FM
ISOLATED VEGETATED WETLANDS	IVW
MANHOLE	MH
MECHANICAL JOINT	MJ
PLAIN END	PE
POLYVINYLCHLORIDE PIPE	PVC
PUBLIC WATER	PW
REINFORCED CONCRETE PIPE	RCP
SANITARY SEWER	SS
STORM DRAIN	SD
UTILITY POLE	UP
WATER	W
WATER GATE	WG

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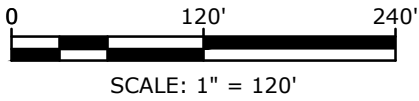
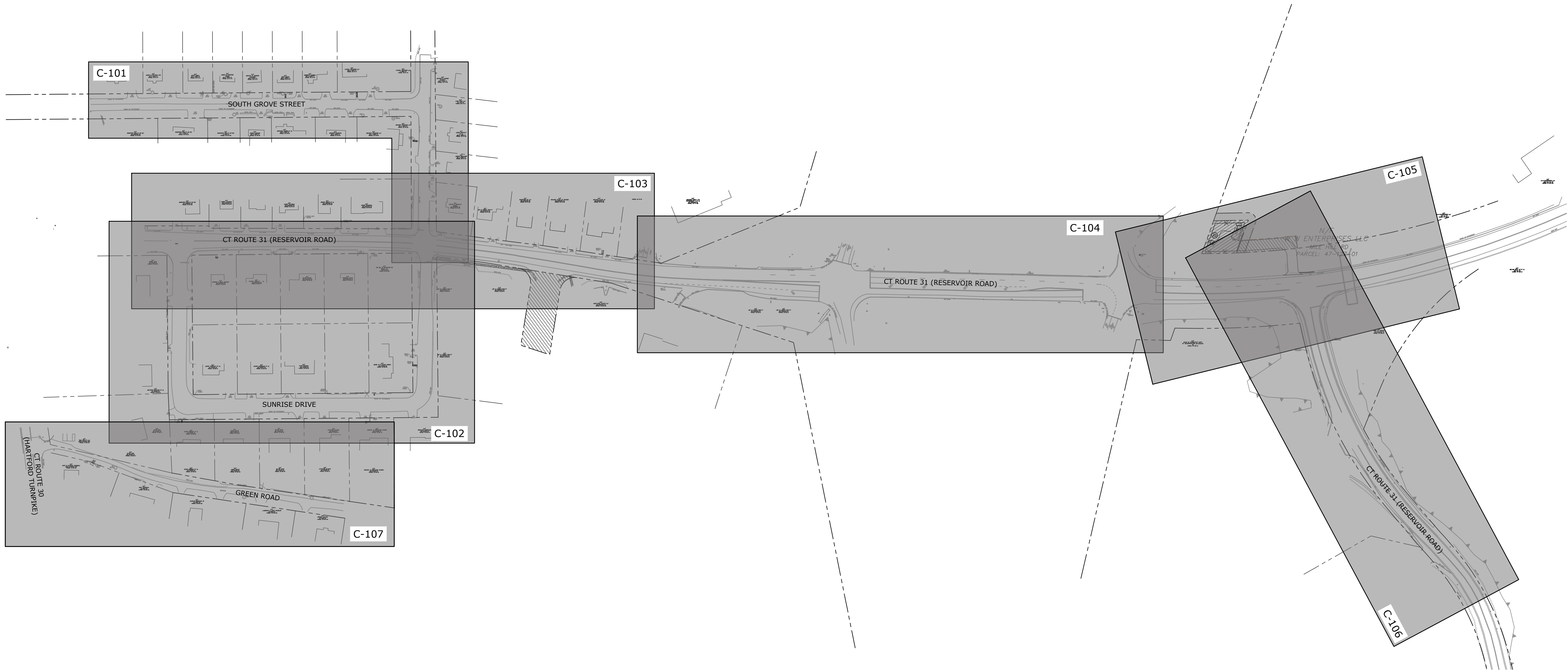
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DATE:	JANUARY 2024
FILE:	V0037-017-G-002.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

GENERAL NOTES, LEGEND
AND ABBREVIATIONS

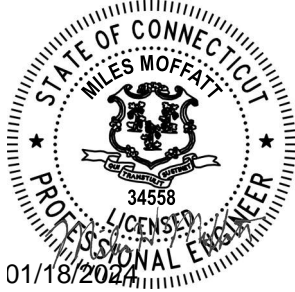
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G-002

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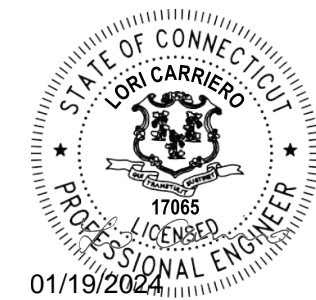
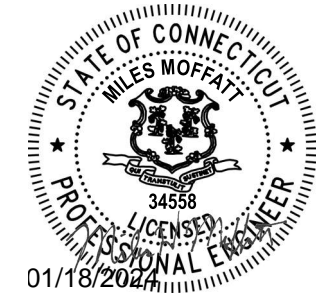
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INDEX PLAN

SCALE: 1" = 120'

C-003



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Town Of
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Exit 67 Sewer
Extension

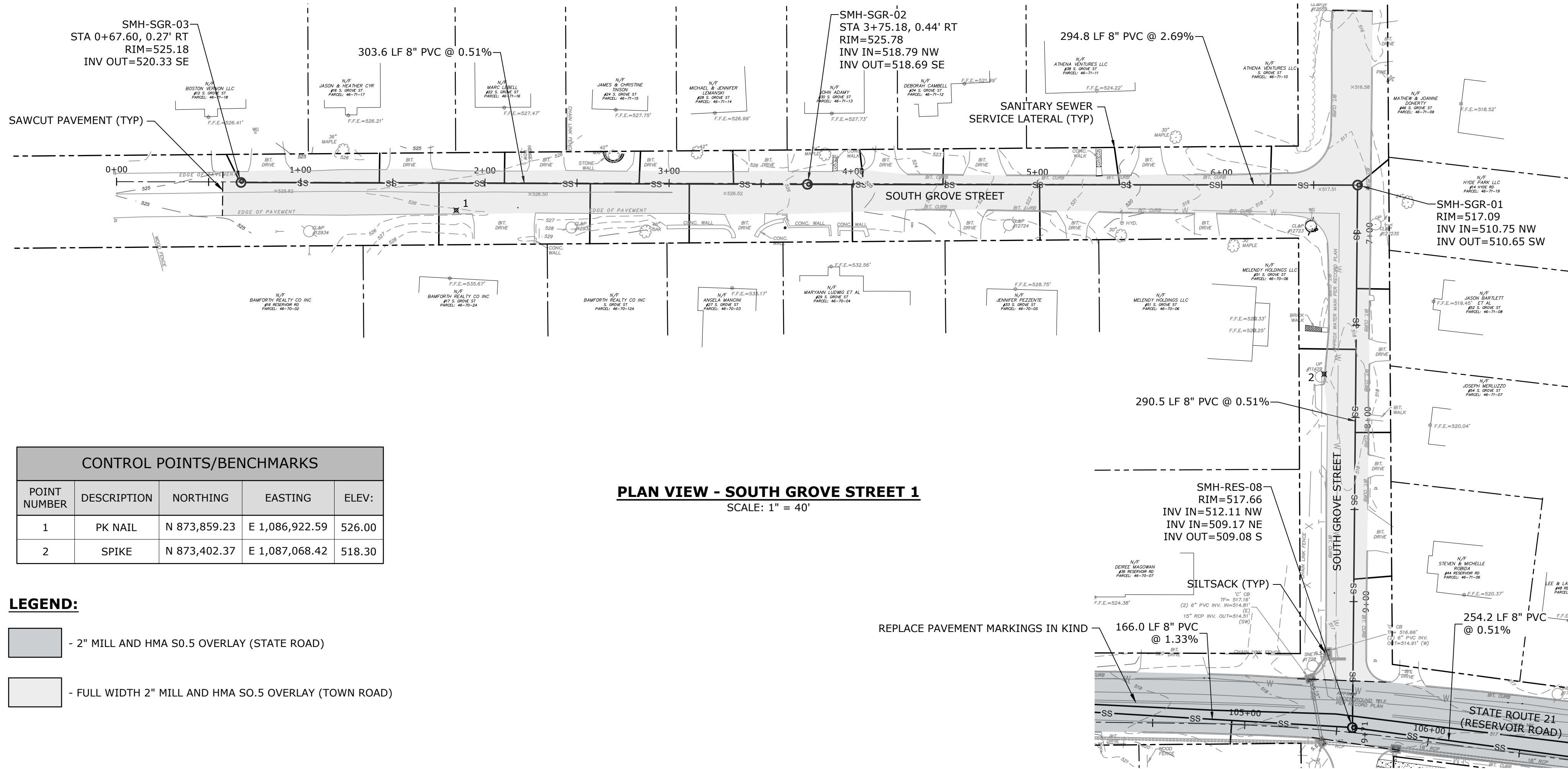
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SANITARY SEWER
PLAN & PROFILE
SOUTH GROVE STREET

SCALE: AS SHOWN

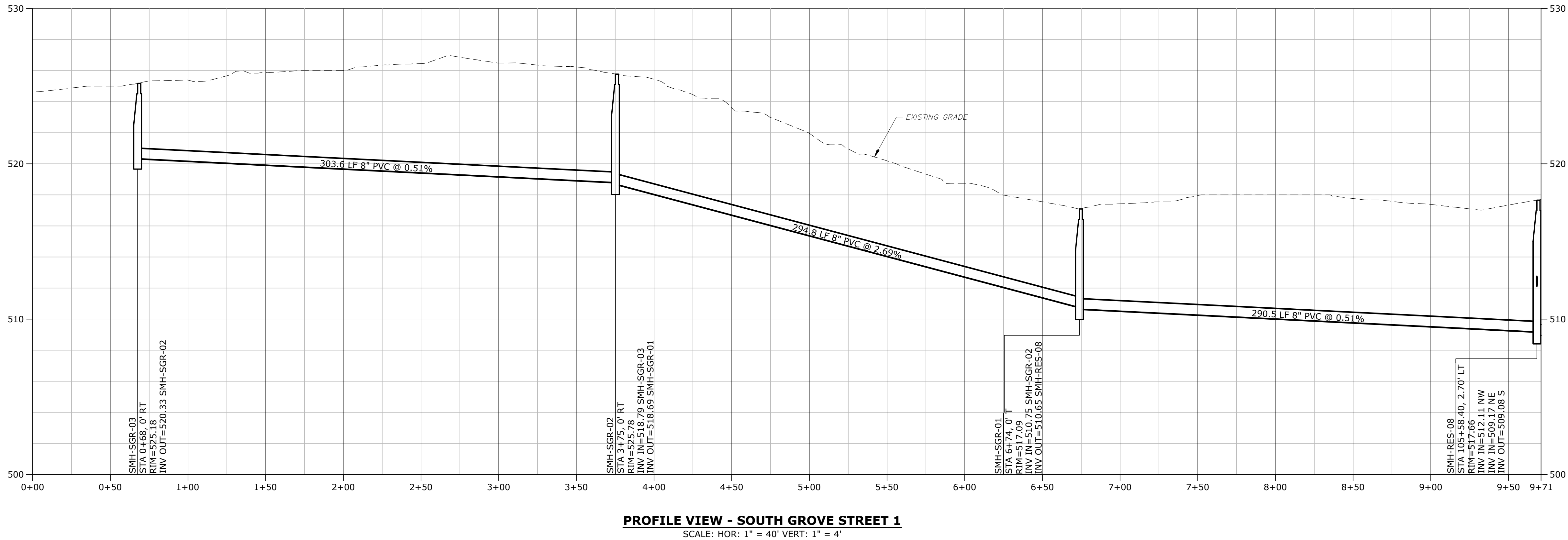
C-101



CONTROL POINTS/BENCHMARKS				
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV.
1	PK NAIL	N 873,859.23	E 1,086,922.59	526.00
2	SPIKE	N 873,402.37	E 1,087,068.42	518.30

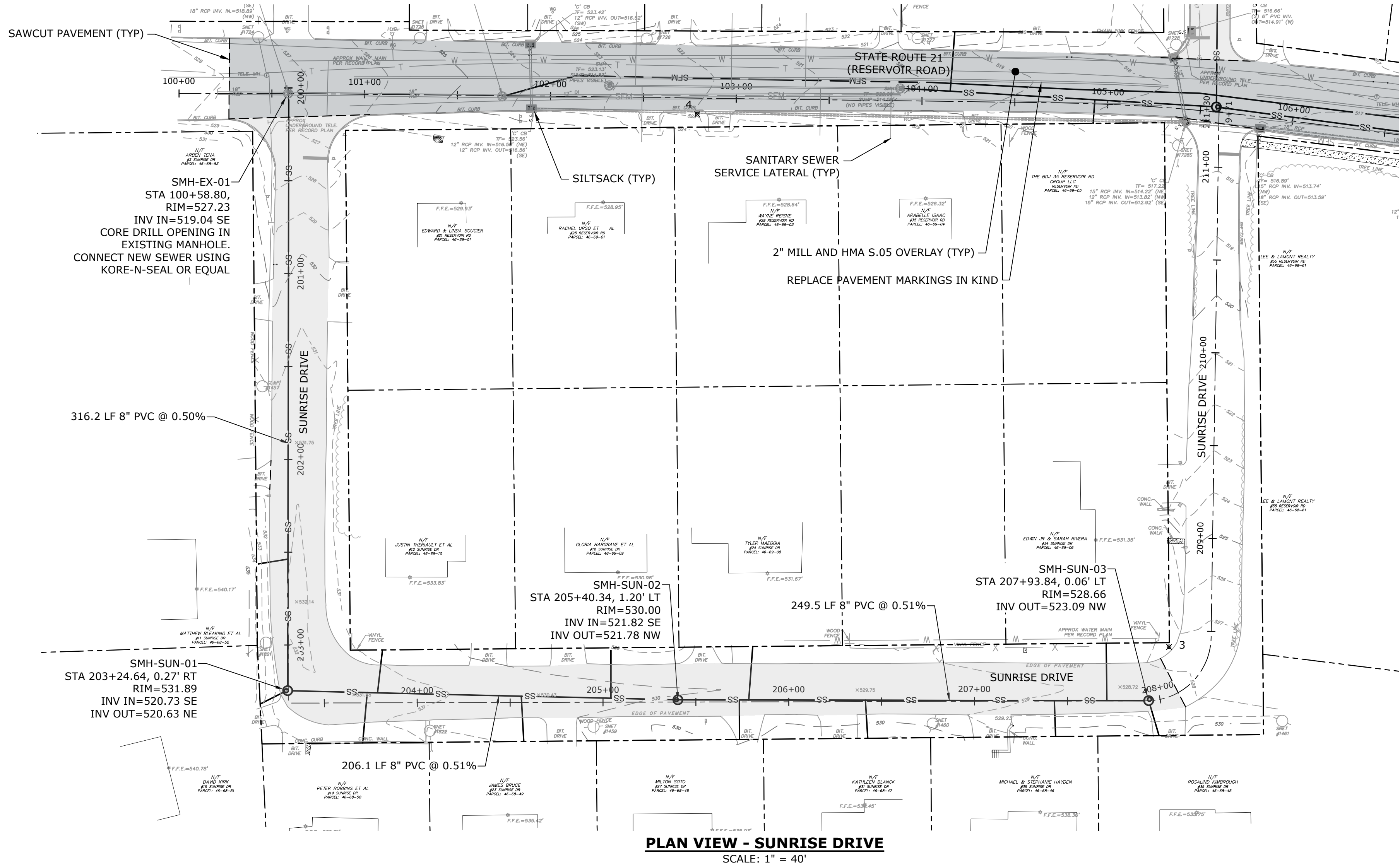
LEGEND:

- 2" MILL AND HMA SO.5 OVERLAY (STATE ROAD)
- FULL WIDTH 2" MILL AND HMA SO.5 OVERLAY (TOWN ROAD)



PROFILE VIEW - SOUTH GROVE STREET 1
SCALE: HOR: 1" = 40' VERT: 1" = 4'

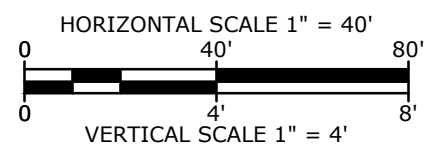
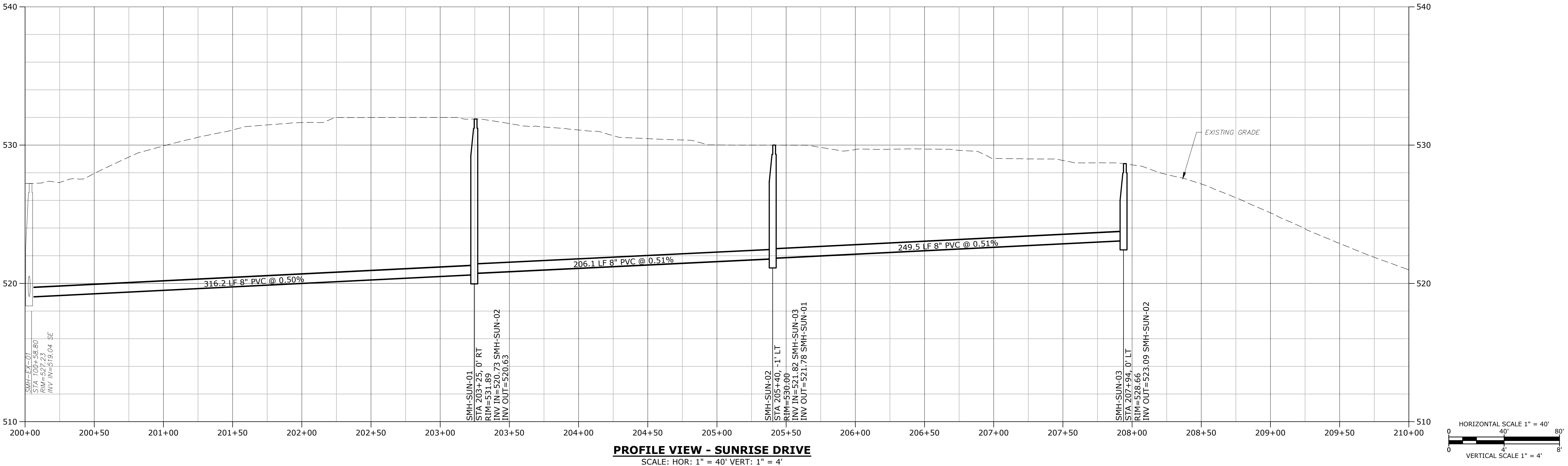
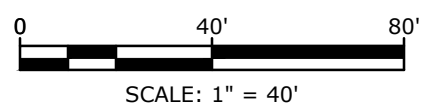
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LEGEND:

- 2" MILL AND HMA S0.5 OVERLAY (STATE ROAD)
- FULL WIDTH 2" MILL AND HMA S0.5 OVERLAY (TOWN ROAD)

CONTROL POINTS/BENCHMARKS				
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV:
3	SPIKE	N 873,181.68	E 1,086,639.09	527.63
4	SPIKE	N 873,541.60	E 1,086,770.58	522.47



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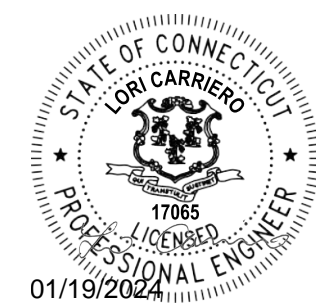
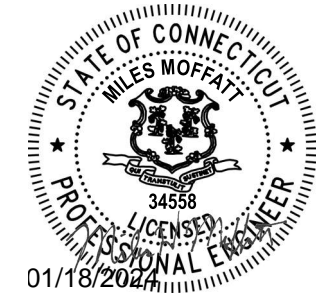
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DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

**SANITARY SEWER
PLAN & PROFILE
SUNRISE DRIVE**

SCALE: AS SHOWN



FOR BIDDING

Town Of
Vernon

Exit 67 Sewer
Extension

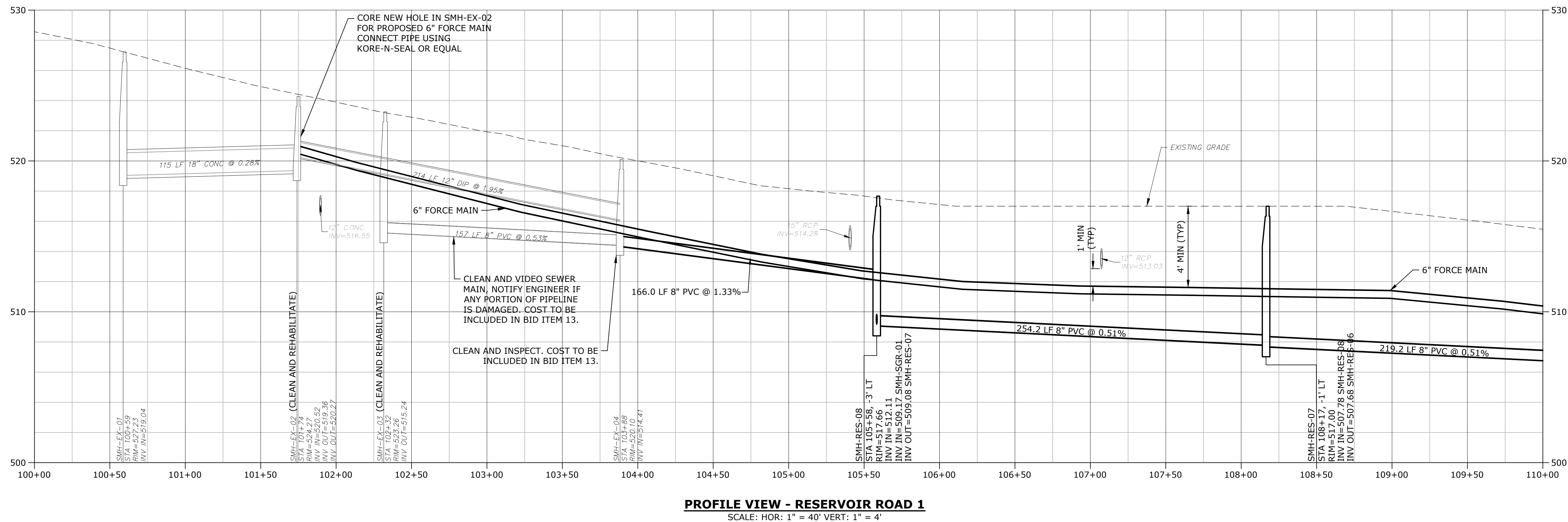
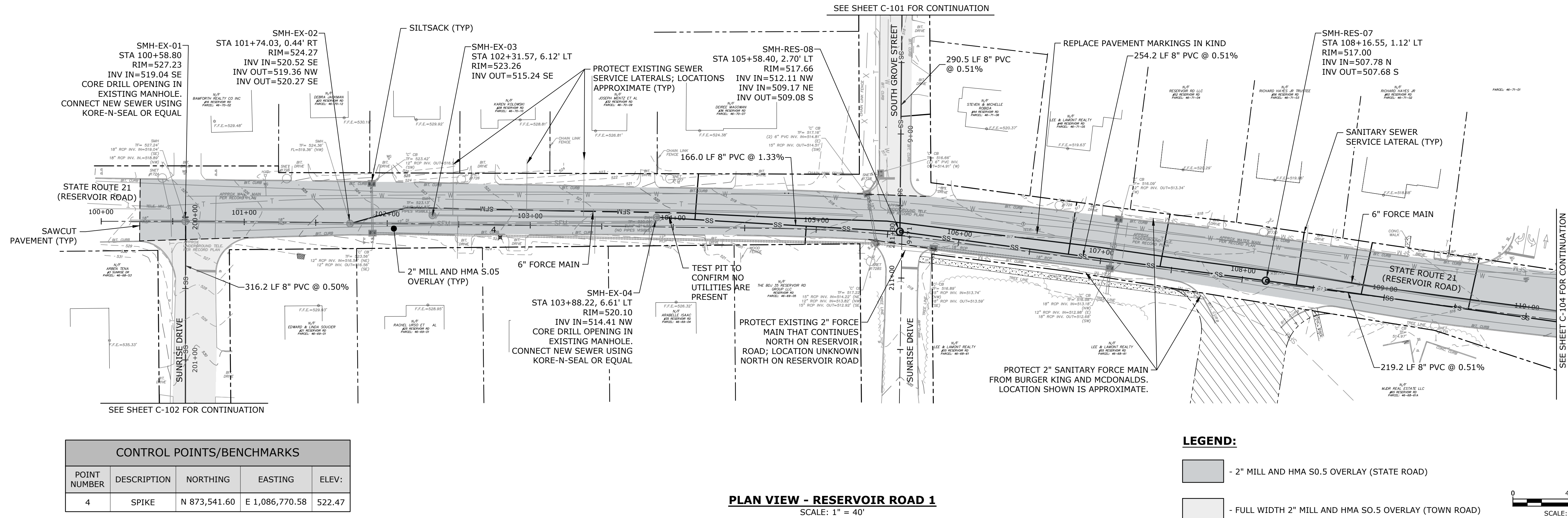
Vernon, CT

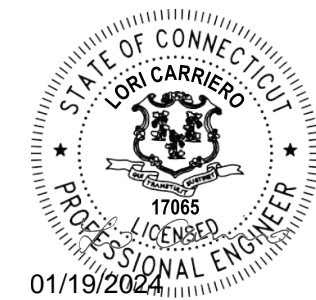
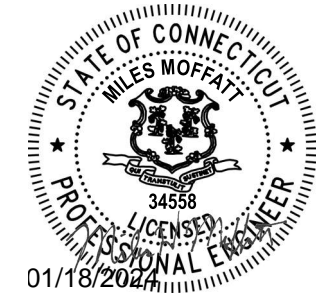
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SANITARY SEWER
PLAN & PROFILE
RESERVOIR ROAD - 1

SCALE: AS SHOWN

C-103





FOR BIDDING

Town Of
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Exit 67 Sewer
Extension

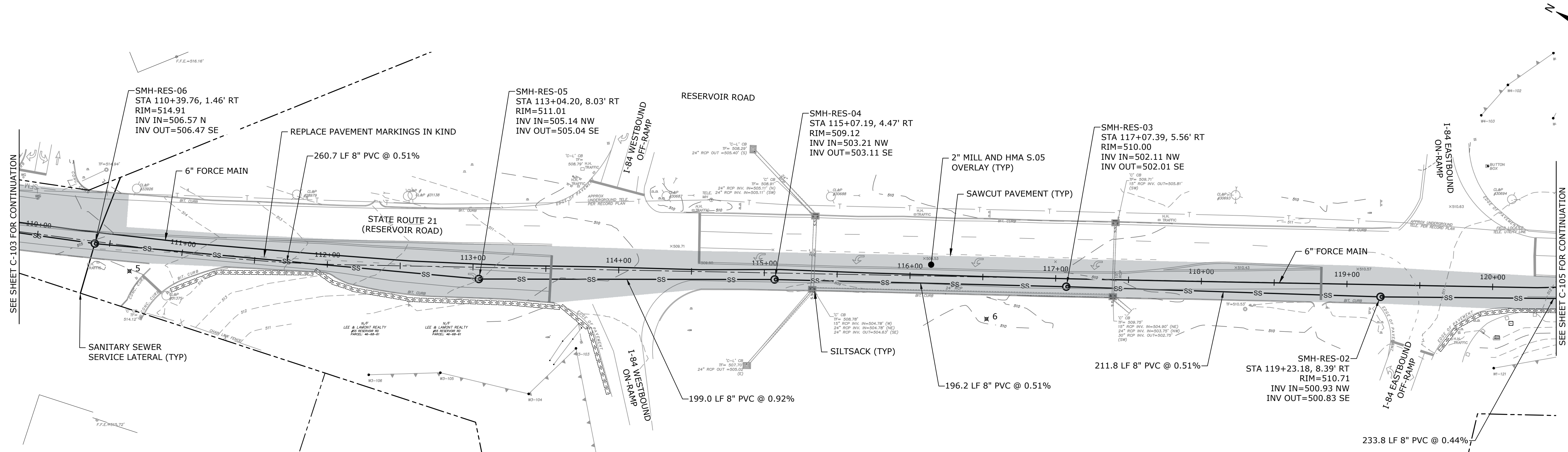
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DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

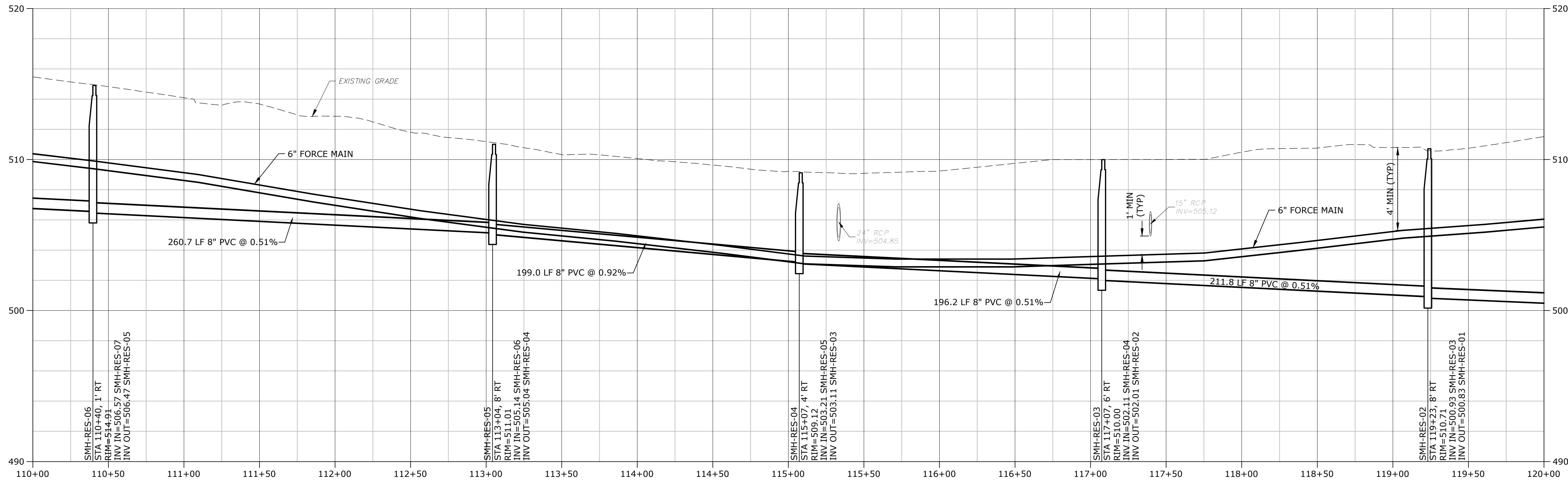
SANITARY SEWER
PLAN & PROFILE
RESERVOIR ROAD - 2

SCALE: AS SHOWN

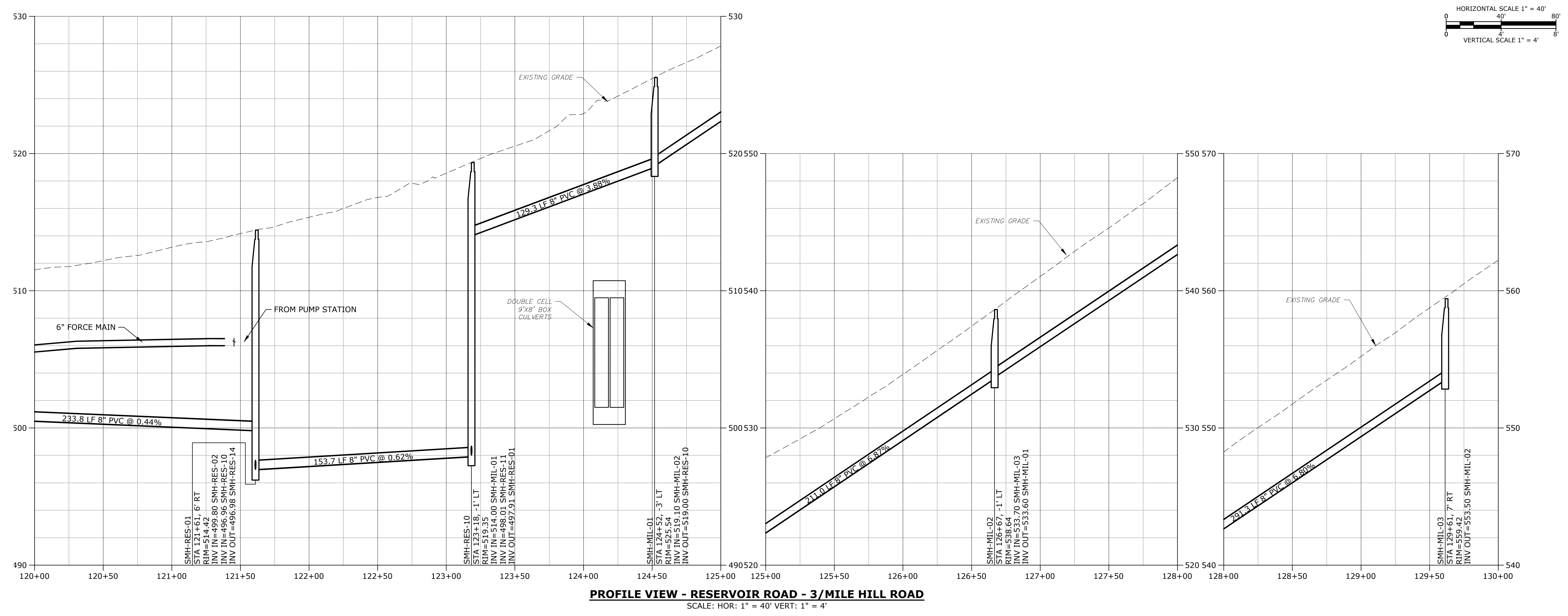
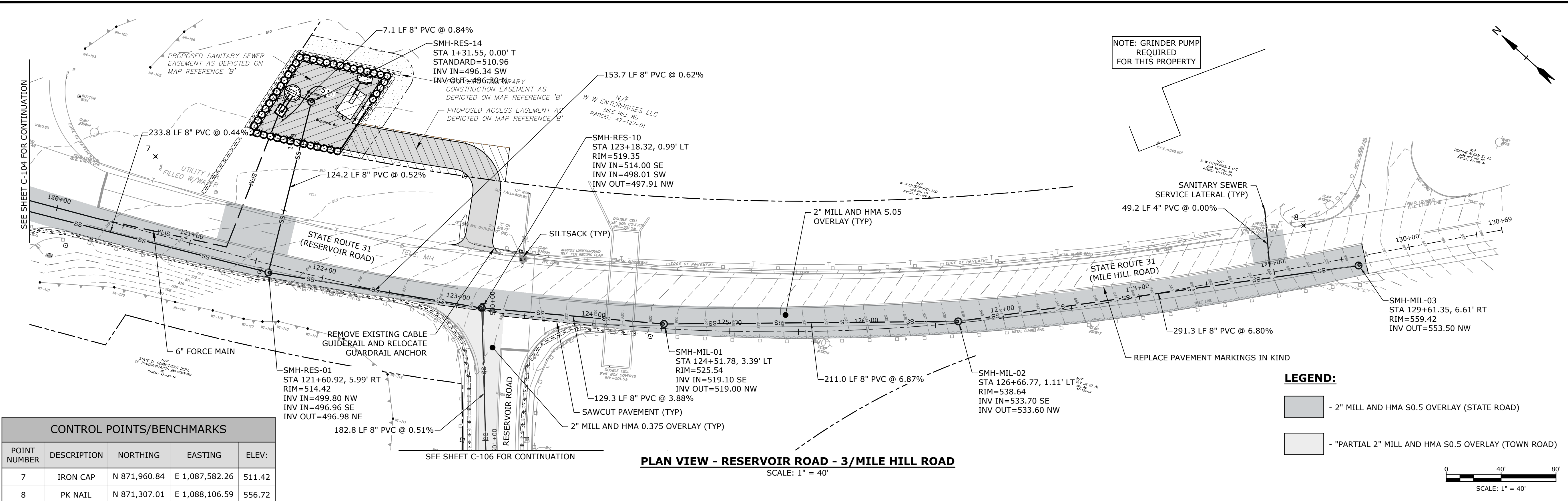
C-104



CONTROL POINTS/BENCHMARKS				
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV:
5	SPIKE	N 872,817.00	E 1,087,070.85	514.92
6	SPIKE	N 872,283.88	E 1,087,321.72	510.03



Last Saved: 1/16/2024 1:58pm By: SarisoneH
Plotted On: Jan 16, 2024 1:58pm By: SarisoneH
Tighe & Bond\J:\V0037-Vernon\WTP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\0037-017-C-100-PLNPR.dwg



Tighe&Bond
1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
34558
01/18/2024

STATE OF CONNECTICUT
PROFESSIONAL ENGINEER
17065
01/19/2024

FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

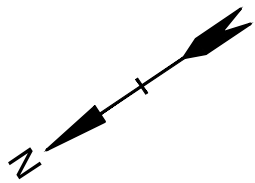
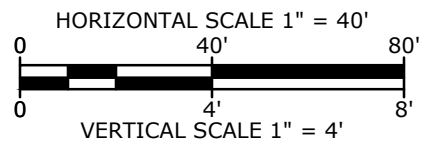
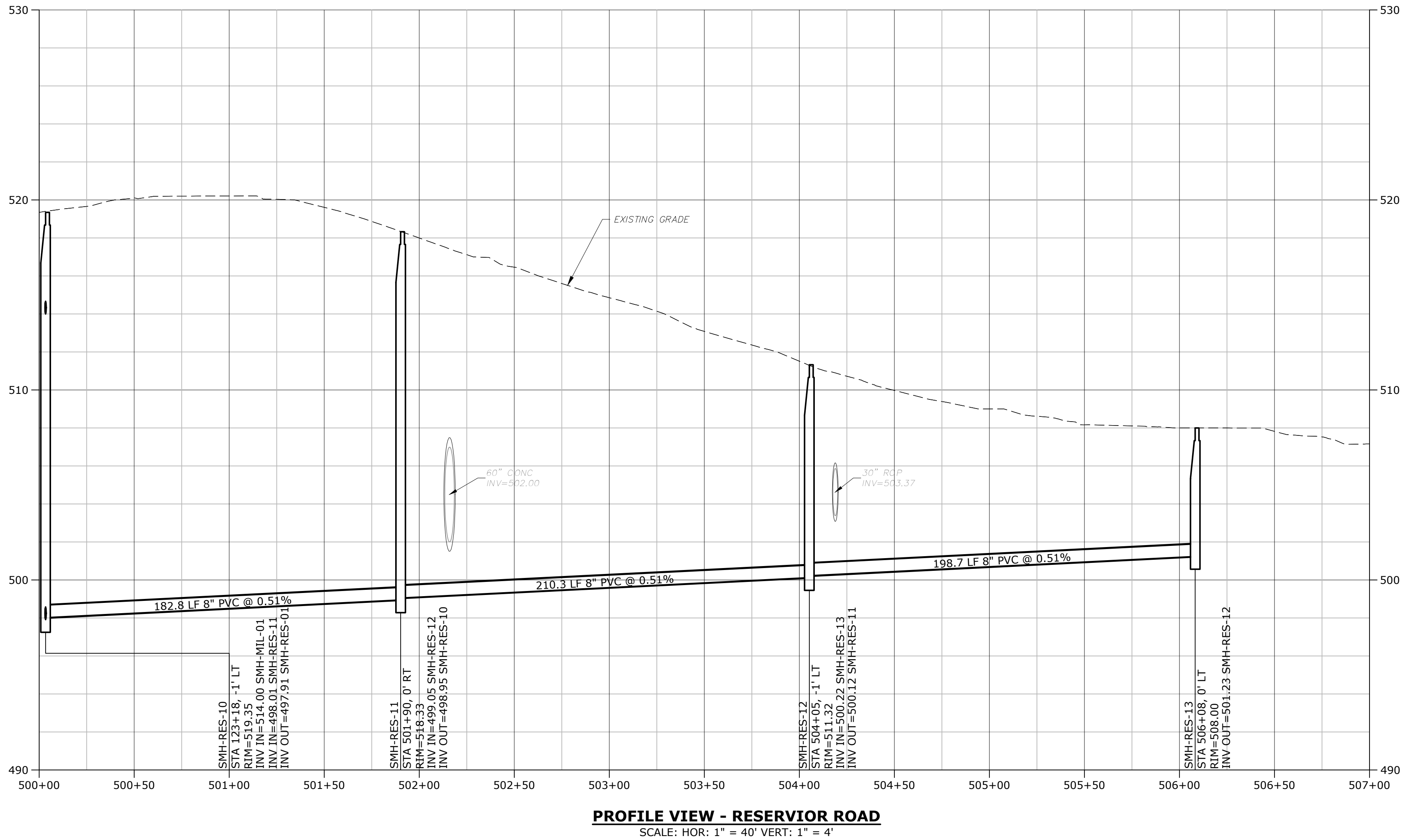
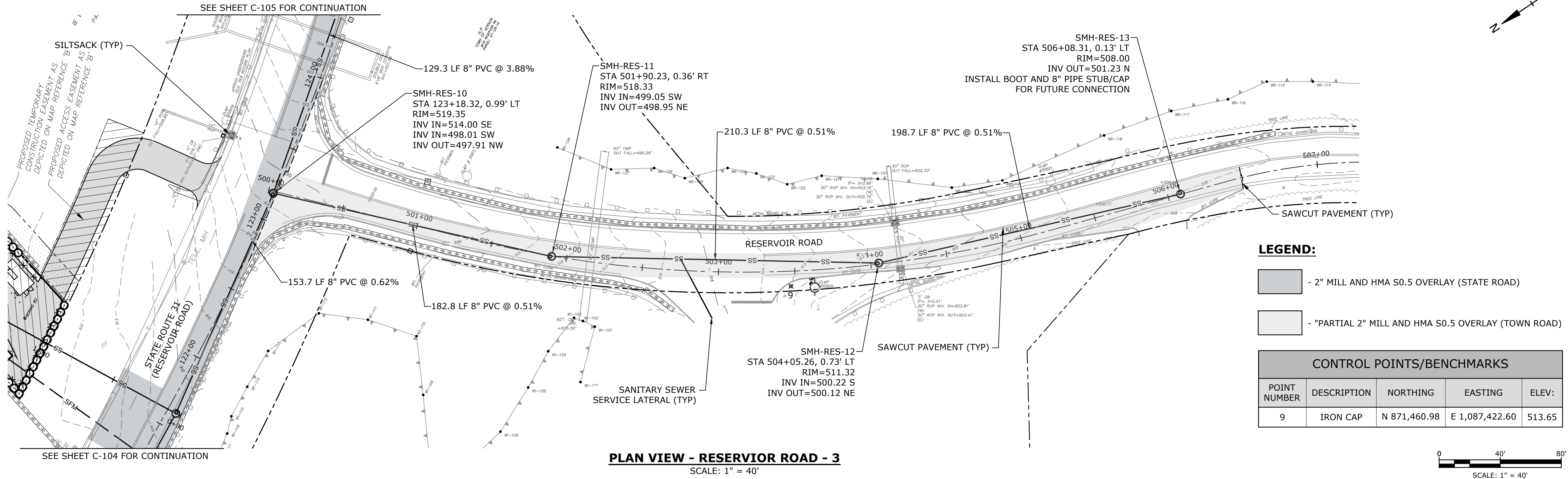
Vernon, CT

PROJECT NO: V0037-017
DATE: JANUARY 2024
FILE: V0037-017-C-100-PLNPR.dwg
DRAWN BY: RRB
DESIGNED/CHECKED BY: LAC
APPROVED BY: MM

**SANITARY SEWER PLAN &
PROFILE RESERVOIR RD - 3
MILE HILL ROAD**

SCALE: AS SHOWN

C-105



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FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

Vernon, CT

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FILE:	V0037-017-C-100-PLNPR.dwg
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DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

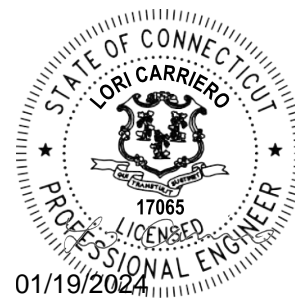
**SANITARY SEWER
PLAN & PROFILE
RESERVOIR ROAD - 4**

SCALE: AS SHOWN

C-106



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Shelton, CT 06484
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FOR BIDDING



- 2" MILL AND HMA S0.5 OVERLAY (STATE ROAD)

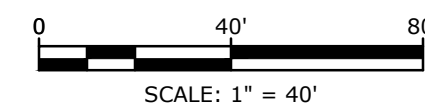
CONTROL POINTS/BENCHMARKS				
POINT NUMBER	DESCRIPTION	NORTHING	EASTING	ELEV:
10	PK NAIL	N 873,781.43	E 1,086,207.93	534.72
11	SPIKE	N 873,295.74	E 1,086,330.35	537.51

NOTE:

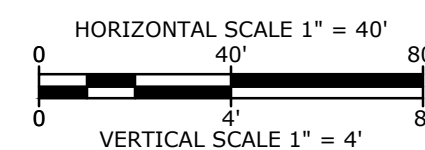
EXISTING GRAVEL ROAD TO BE RESTORED PER SECTION 02320
AT CONCLUSION OF PIPE INSTALLATION.

PLAN VIEW - GREEN ROAD

SCALE: 1" = 40'



SCALE: HOR: 1" = 40' VERT: 1" = 4'



Town Of Vernon

Exit 67 Sewer Extension

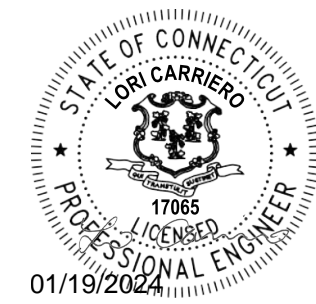
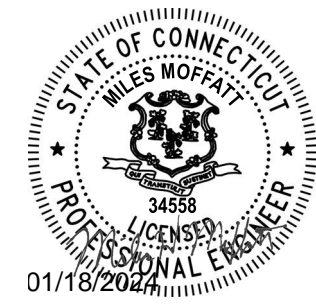
Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-C-100-PLNPR.dwg
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DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

SANITARY SEWER
PLAN & PROFILE
GREEN ROAD

SCALE: AS SHOWN

C-107



FOR BIDDING

Town Of
Vernon

Exit 67 Sewer
Extension

Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-C-100-PLNPR.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

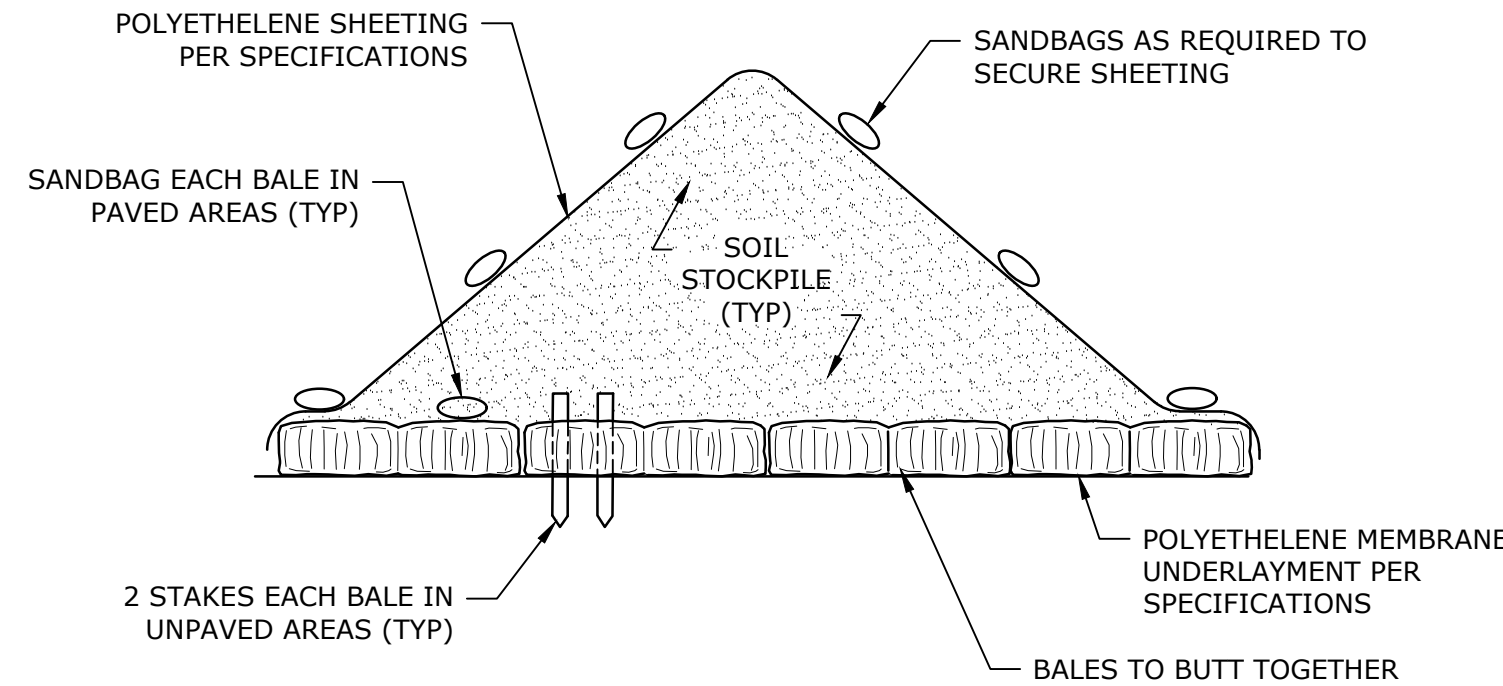
SANITARY SEWER
PLAN & PROFILE
AT PUMP STATION SITE

SCALE: AS SHOWN

C-108

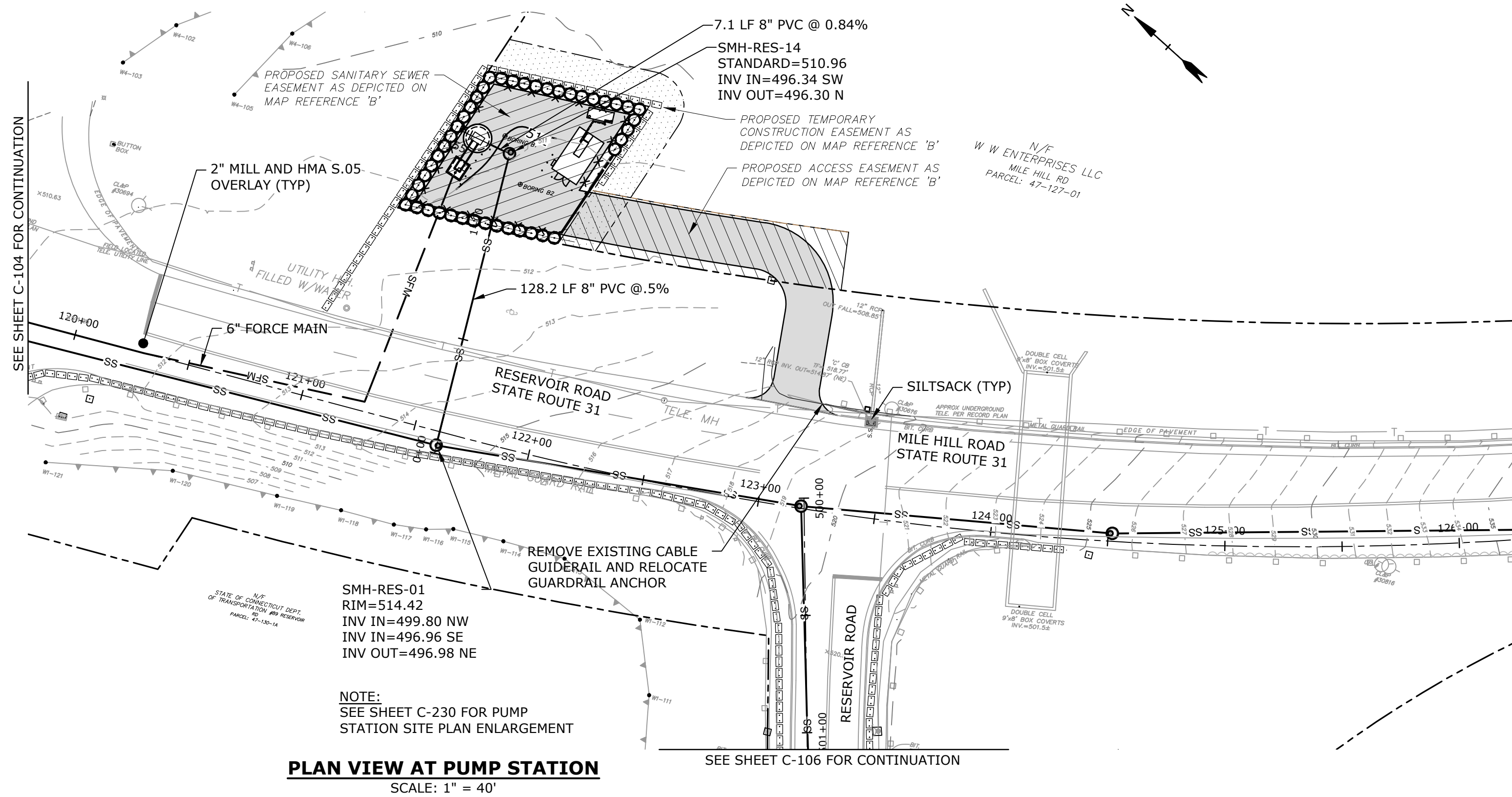
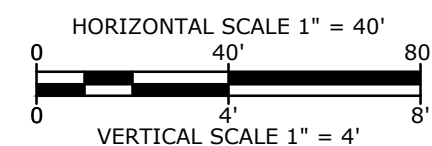
SOIL AND MATERIAL MANAGEMENT PLAN NOTES

- SOIL MANAGEMENT TESTING AND ANALYSIS IS ONGOING AND RESULTS ARE SUBJECT TO CHANGE
- EXCAVATED SOIL MUST BE MANAGED IN ACCORDANCE WITH CONTRACT DOCUMENTS. CONTAMINATED/POLLUTED MATERIAL WAS OBSERVED FROM 0 FEET TO 2 FEET ACROSS THE SITE. SOILS ARE IMPACTED BY PAHS AND PESTICIDES.
- "CONTAMINATED/POLLUTED MATERIALS" ARE DEFINED IN SECTION 02110.
- SOIL EXCAVATED FROM 0 TO 2 FEET MAY BE REUSED ON-SITE IN CONFORMANCE WITH THE FOLLOWING REQUIREMENTS,
 - CANNOT BE PLACED BELOW THE WATER TABLE,
 - CANNOT BE PLACED IN AN AREA SUBJECT TO EROSION,
 - A MAP SHOWING THE LOCATION AND DEPTH OF ALL RE-USED SOIL MUST BE PREPARED BY THE CONTRACTOR FOLLOWING THE COMPLETION OF SITE WORK.
- ANY EXCESS POLLUTED / CONTAMINATED SOIL OR ANY OTHER SOILS EXCAVATED DURING CONSTRUCTION MUST BE FURTHER CHARACTERIZED PRIOR TO EXPORT FROM THE SITE. ENGINEER WILL COLLECT REPRESENTATIVE SAMPLES OF STOCKPILED SOIL FOR LABORATORY ANALYSIS TO INFORM OFF-SITE REUSE OR DISPOSAL OPTIONS. ALTERNATIVELY, CONTRACTOR MAY REQUEST THAT IN-SITU SAMPLING BE COMPLETED TO FACILITATE LIVE-LOADING. CONTRACTOR IS RESPONSIBLE FOR ANY IN-SITU SAMPLE COLLECTION COSTS ASSOCIATED WITH TEST PITTING, DRILLING, OR ANY OTHER MEANS OF COLLECTING THE NECESSARY SAMPLES. CONTRACTOR IS ALSO RESPONSIBLE FOR LABORATORY ANALYTICAL COSTS.
- SEE PROJECT SOIL EROSION AND SEDIMENTATION CONTROL PLANS FOR ADDITIONAL CONTROL MEASURES.
- STOCKPILES SHALL BE LOCATED WITHIN THE PUMP STATION TEMPORARY EASEMENT. CONTRACTOR SHALL DETERMINE THE FINAL LOCATION OF SOIL STOCKPILES.
- SOIL EXCAVATED FROM 0 FEET TO 2 FEET MUST BE STOCKPILED SEPARATELY FROM DEEPER SOILS TO PREVENT COMMINGLING / CROSS CONTAMINATION.

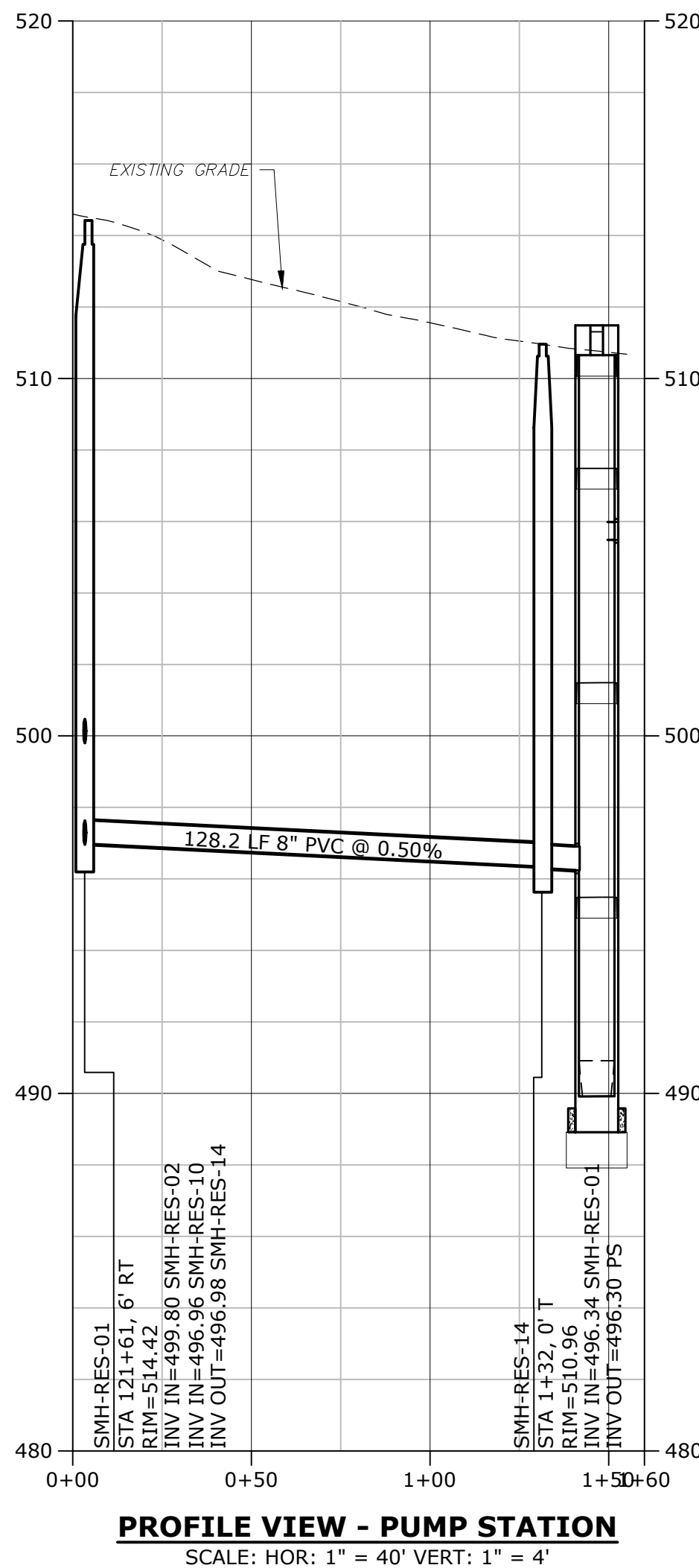


NOTE: DIMENSIONS AS SHOWN ON PLANS.

CONTROLLED SOIL STOCKPILE
NO SCALE

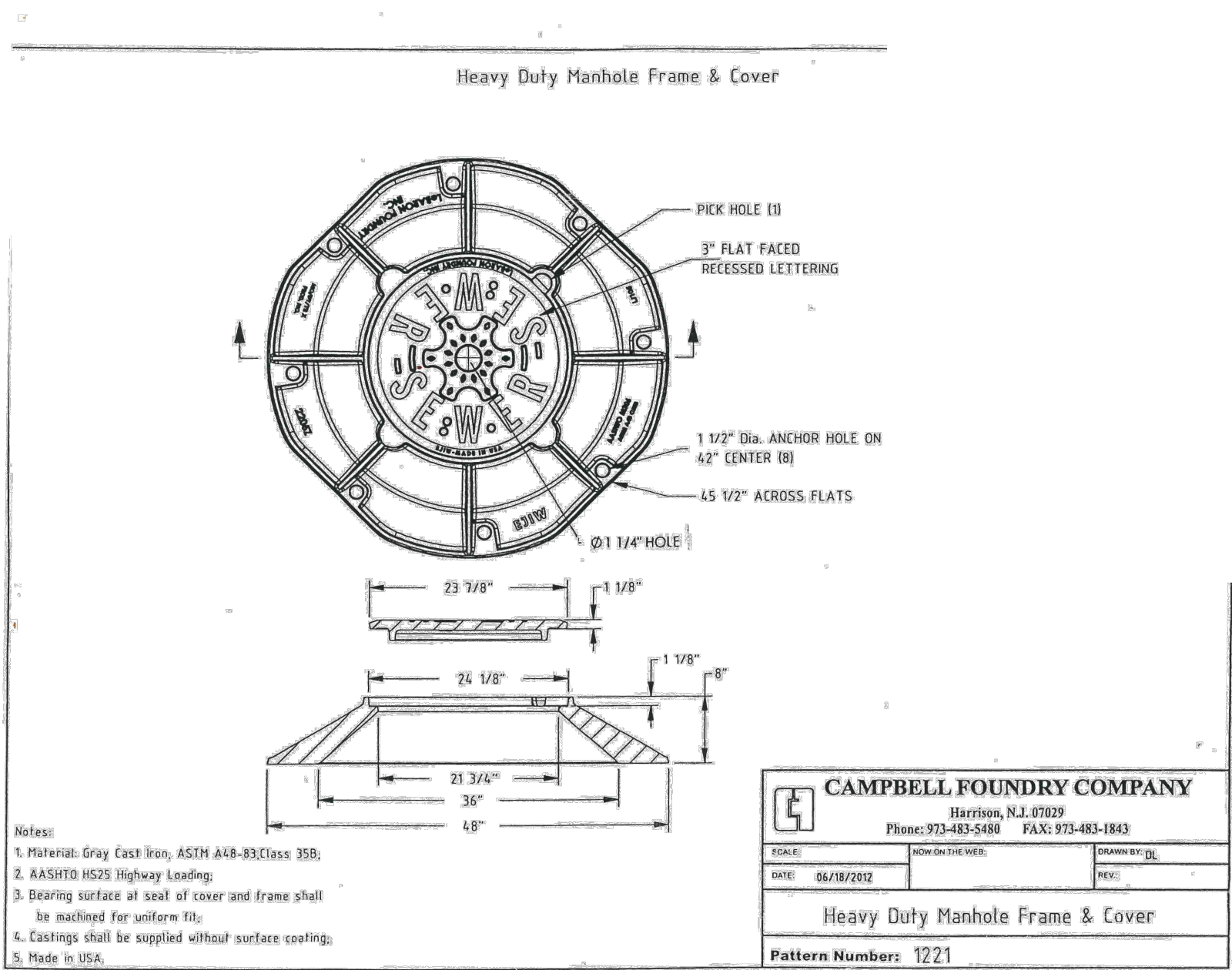


PLAN VIEW AT PUMP STATION
SCALE: 1" = 40'

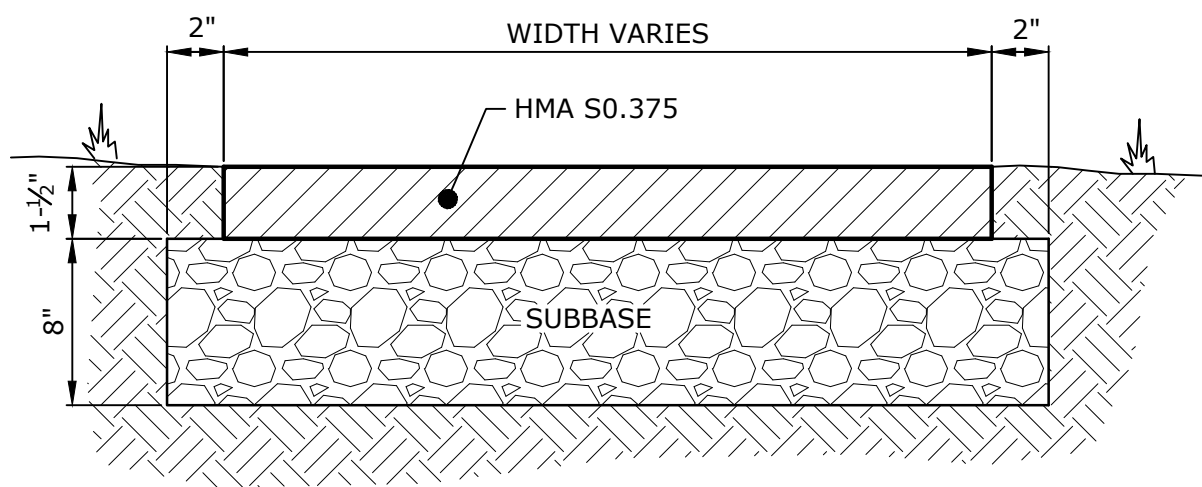


PROFILE VIEW - PUMP STATION
SCALE: HOR: 1" = 40' VERT: 1" = 4'

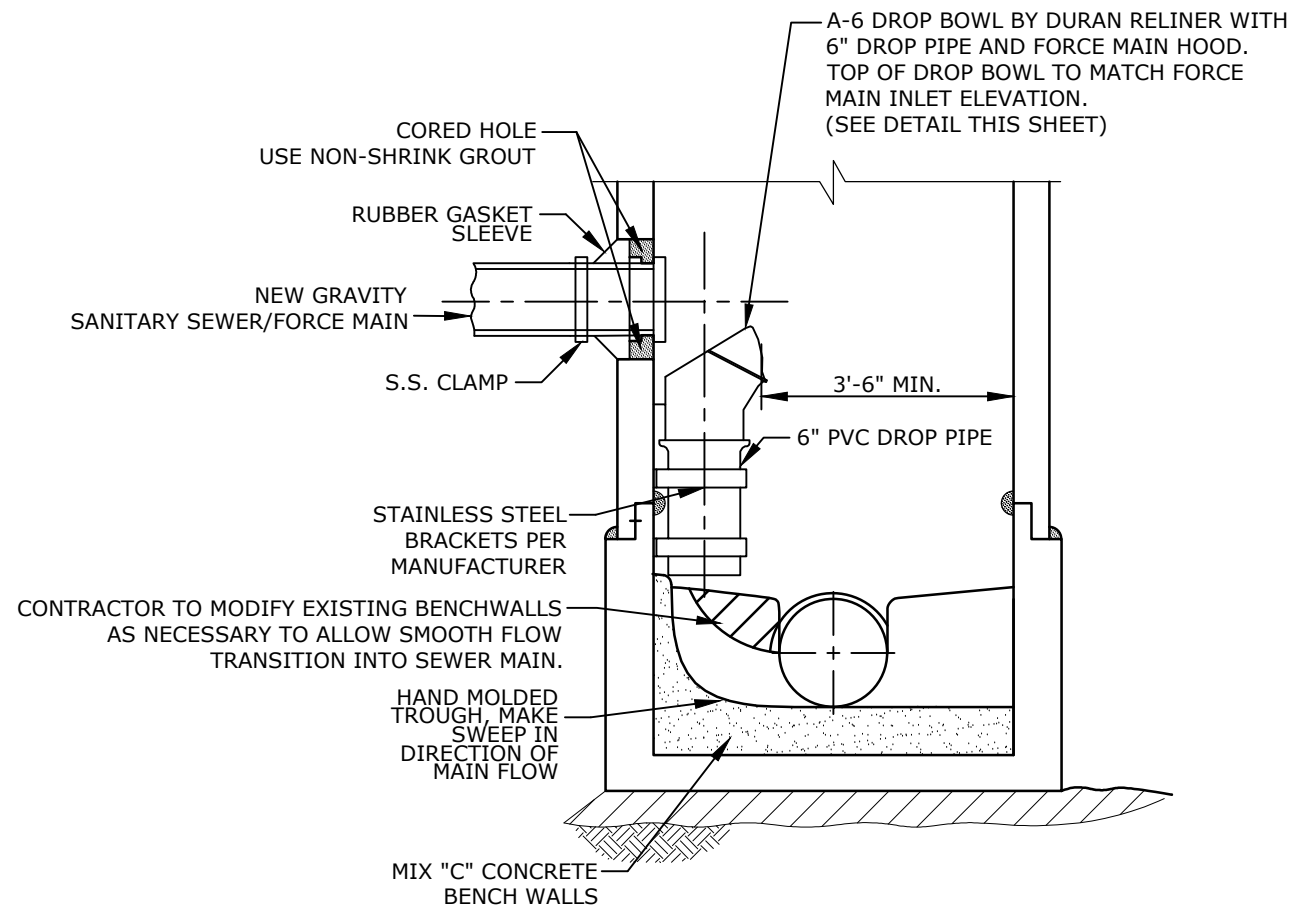
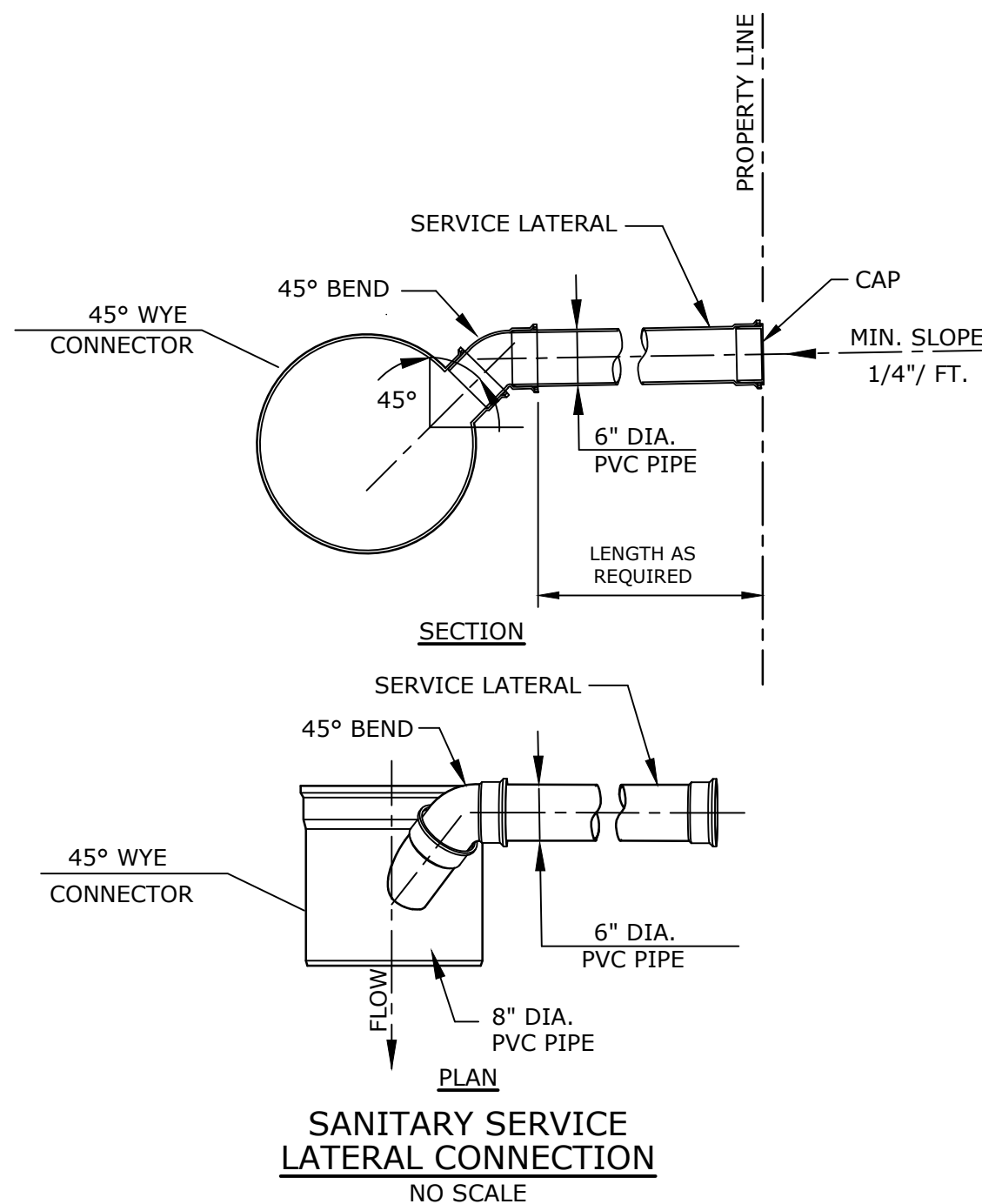
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Plotted On: Jan 16, 2024 1:59pm By: Sarisoneh
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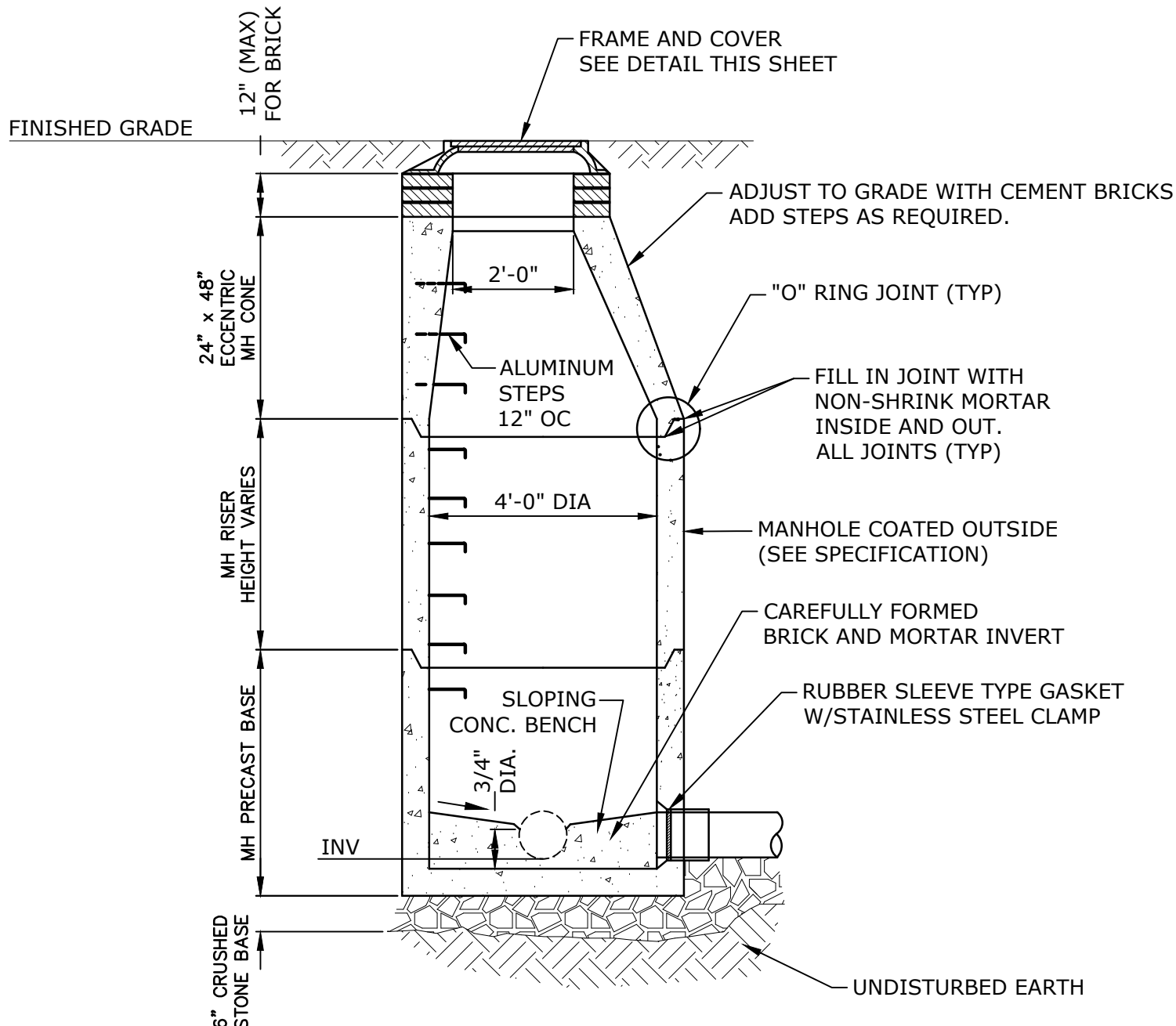
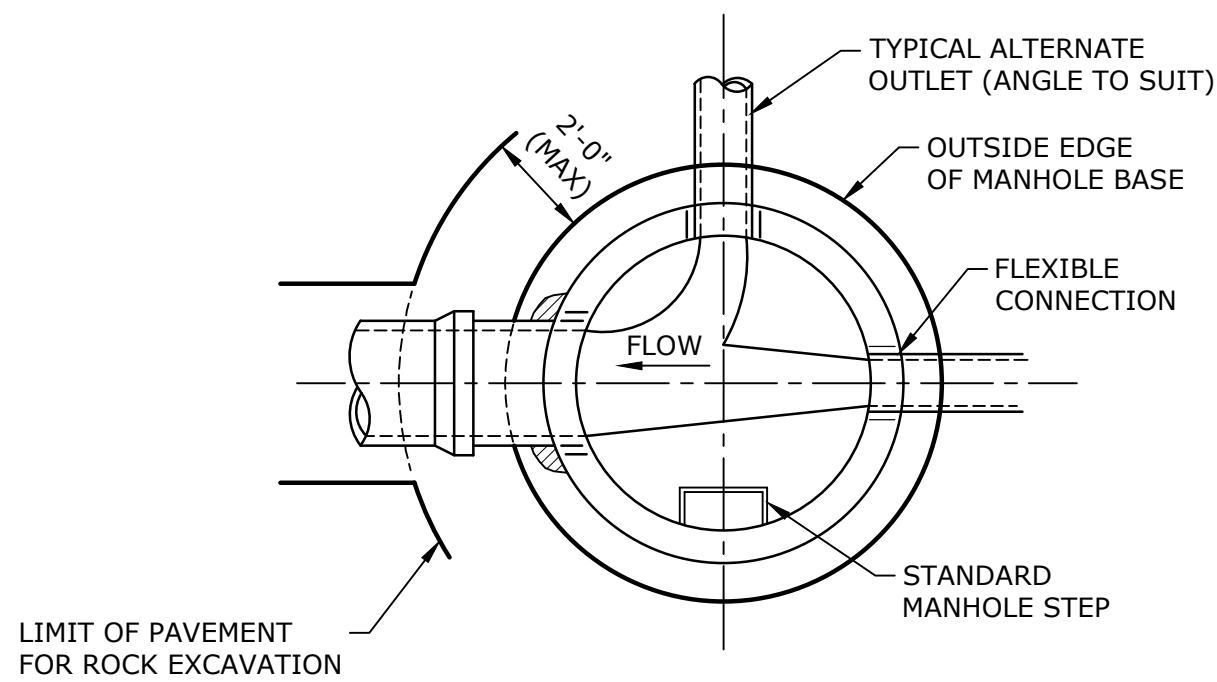
MANHOLE FRAME AND COVER
NO SCALE



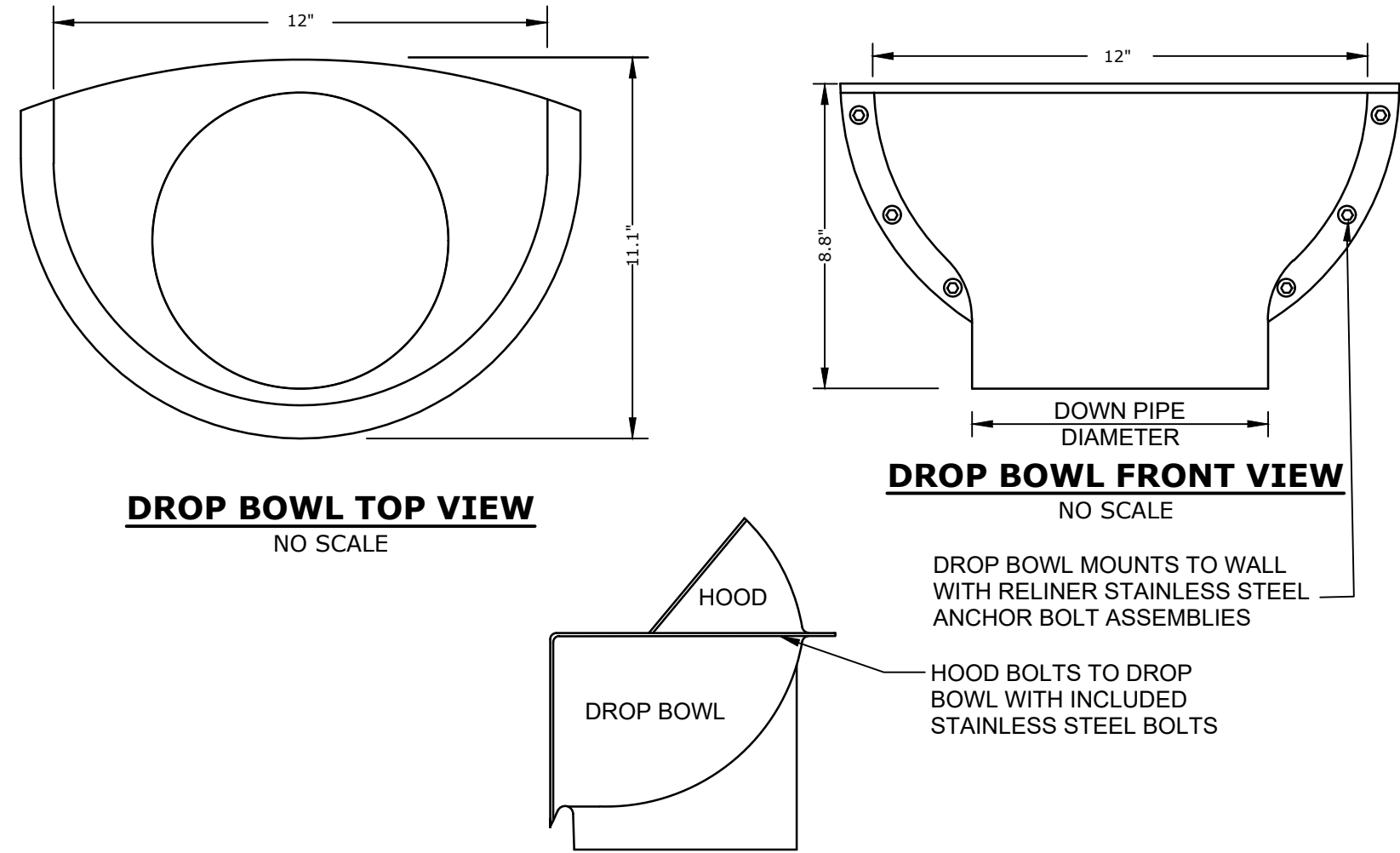
**BITUMINOUS CONCRETE
DRIVEWAY PAVEMENT REPAIR**
NO SCALE



INSIDE DROP MANHOLE DETAIL
NO SCALE



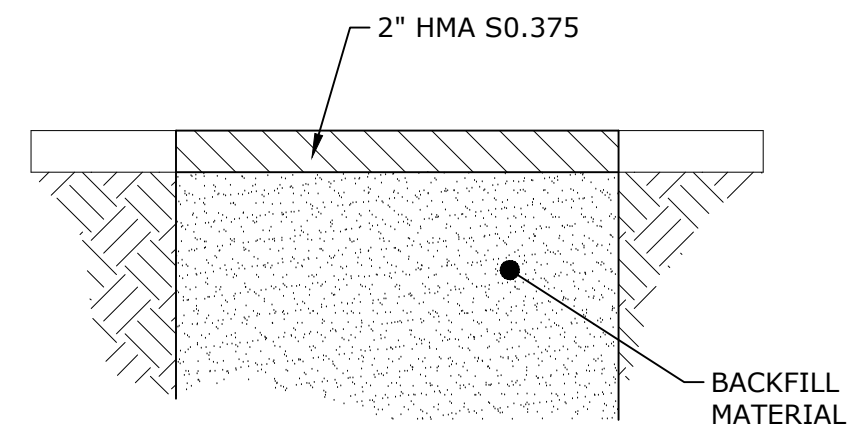
STANDARD SANITARY SEWER MANHOLE
NO SCALE



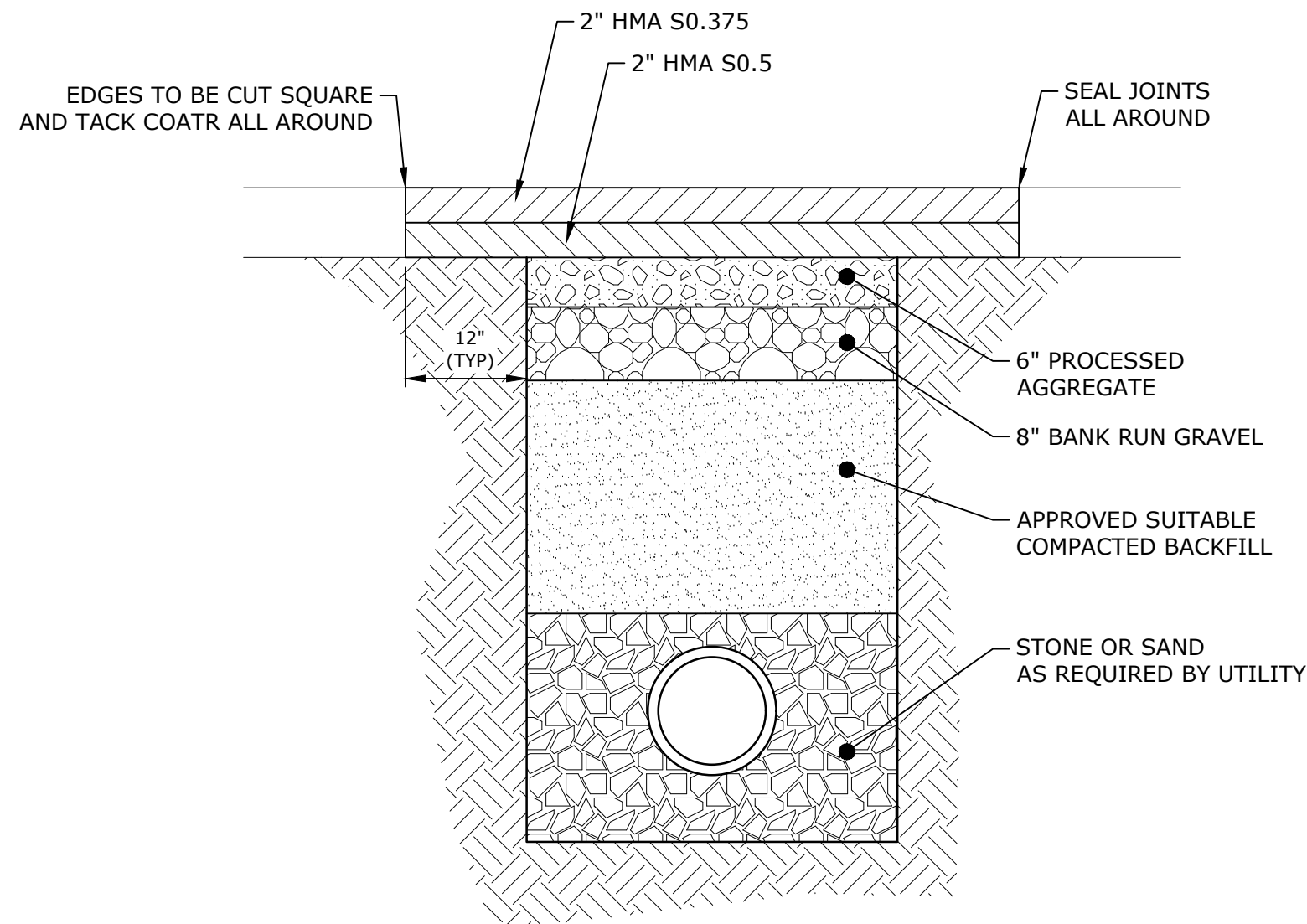
FORCE LINE HOOD
NO SCALE

- NOTES:
1. A6FDB FLAT WALL.

SANITARY MANHOLE INSIDE DROP BOWL DETAIL
NO SCALE



**TOWN OF VERNON
TEMPORARY PAVING DETAIL - TOWN ROAD**
NO SCALE

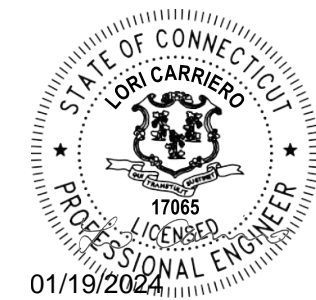
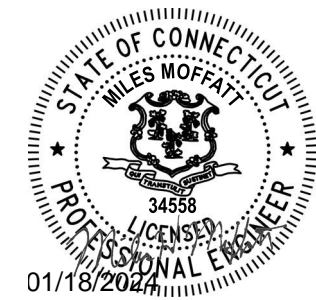


- NOTE:
1. REFER TO SANITARY SEWER BEDDING DETAIL - TOWN ROADS, SHEET C-202.
2. FINAL PAVING EXTENT TO BE AS SHOWN ON PLANS.

**TOWN OF VERNON
TOWN ROAD - FINAL PAVING DETAIL**
NO SCALE

Tighe&Bond

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Suite 320
Shelton, CT 06484
(203) 712-1100



FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

Vernon, CT

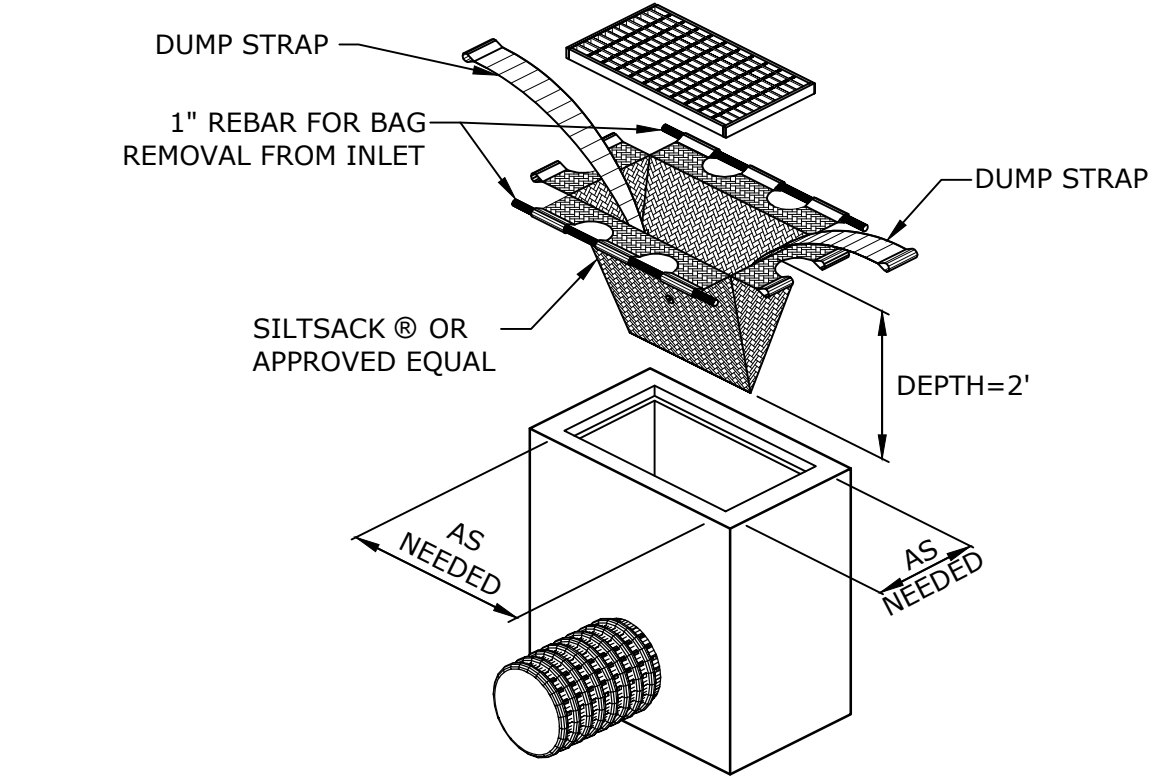
PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-C-100-PLNPR.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

DETAILS - 1

SCALE: AS SHOWN

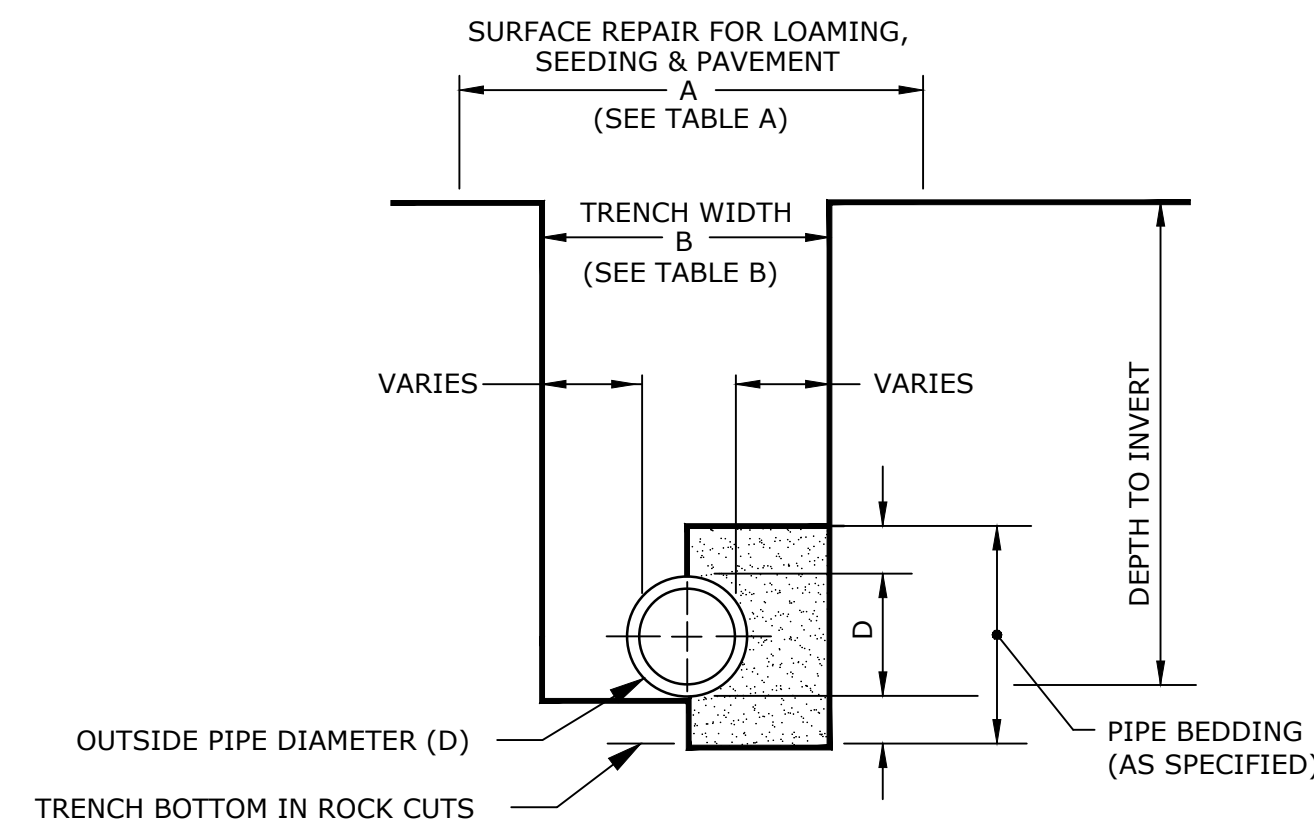
C-201

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Plotted On: Jan 16, 2024 1:59pm
Tighe & Bond - J:\V0037 - Exit 67 Sewer Extension - Design\Drawings\AutoCAD\Sheet\0037-017-C-100-PLNPR.dwg



SILTSACK MANUFACTURED BY:
ACF ENFRONMENTAL
2831 CARDWELL ROAD
RICHMOND, VIRGINIA 23237

SILTSACK®
NO SCALE



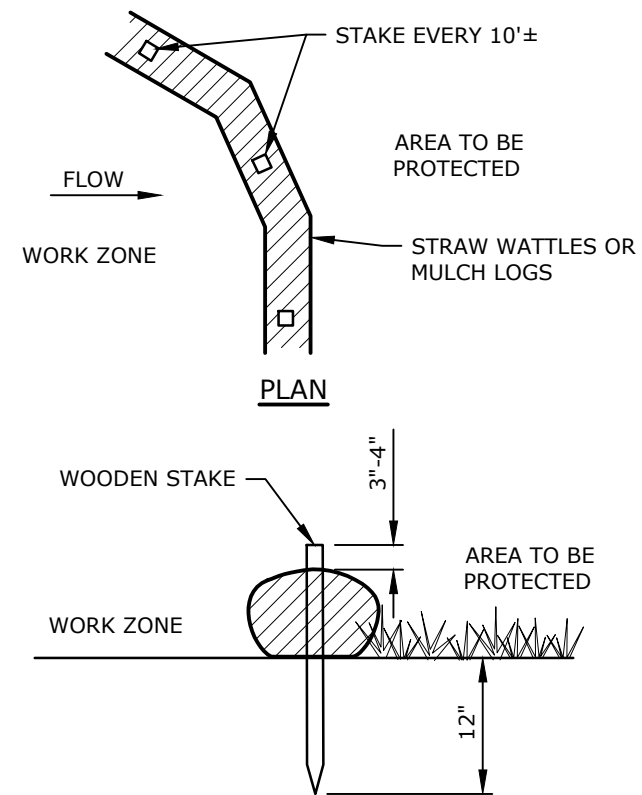
TYPICAL TRENCH SECTION

TABLE A - MAXIMUM SURFACE REPAIR PAY WIDTHS (SEE NOTE 1)			
OUTSIDE PIPE DIAMETER 0 - 24"		OUTSIDE PIPE DIAMETER GREATER THAN 24"	
TEMPORARY REPAIR (3) 6'-6" MAX.	PERMANENT RAPAIR (4) 8'-6" MAX.	TEMPORARY REPAIR (3) D + 4'-0" MAX.	PERMANENT REPAIR (4) D + 6'-0" MAX.
TABLE B - MAXIMUM TRENCH EXCAVATION PAY WIDTHS (SEE NOTE 1)			
OUTSIDE PIPE DIAMETER 0 - 24"		OUTSIDE PIPE DIAMETER GREATER THAN 24"	
5'-0"		D + 3'-0"	

- NOTE:**
- THE PAYLINE DIMENSIONS SHOWN REPRESENT THE MAXIMUM PAYLINE LIMITS TO BE PAID. WHEN THE ACTUAL SURFACE REPAIR OR TRENCH WIDTH IS LESS, THE ACTUAL WIDTH SHALL BE PAID FOR AT THE APPLICABLE UNIT PRICE.
 - TRENCH SURFACE REPAIR WIDTH FOR STREETS WHICH INCLUDE FULL WIDTH OVERLAY OR GRAVEL SURFACE SHALL BE 6'-6" MAX, FOR PIPES 0"-24".
 - INCLUDES TEMPORARY PAVEMENT PATCHES FOR SIDEWALKS AND DRIVEWAYS.
 - INCLUDES PERMANENT REPAIRS FOR DRIVEWAYS, SIDEWALKS, LAWN AREAS (LOAM & SEED), BERMS, ROADWAYS AND CURBS.

**TRENCH EXCAVATION AND SURFACE REPAIR PAYLINES - TOWN ROADS
(EXCLUDING STREET TRENCH PATCH AND FULL WIDTH OVERLAY)**

NO SCALE

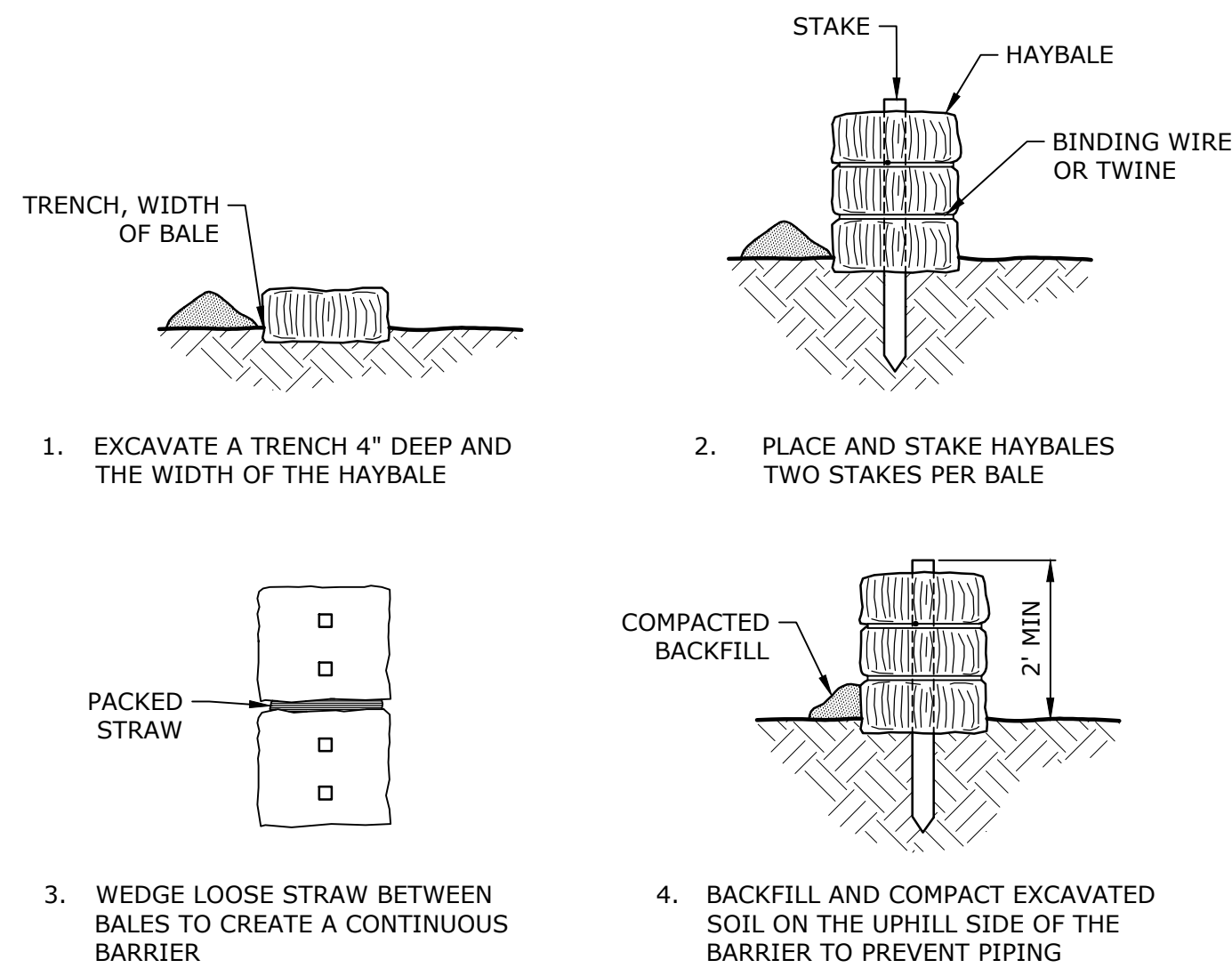


SECTION

- NOTE:**
- USE OF PRODUCTS WITH PLASTIC AND/OR NYLON NETTING IS PROHIBITED.

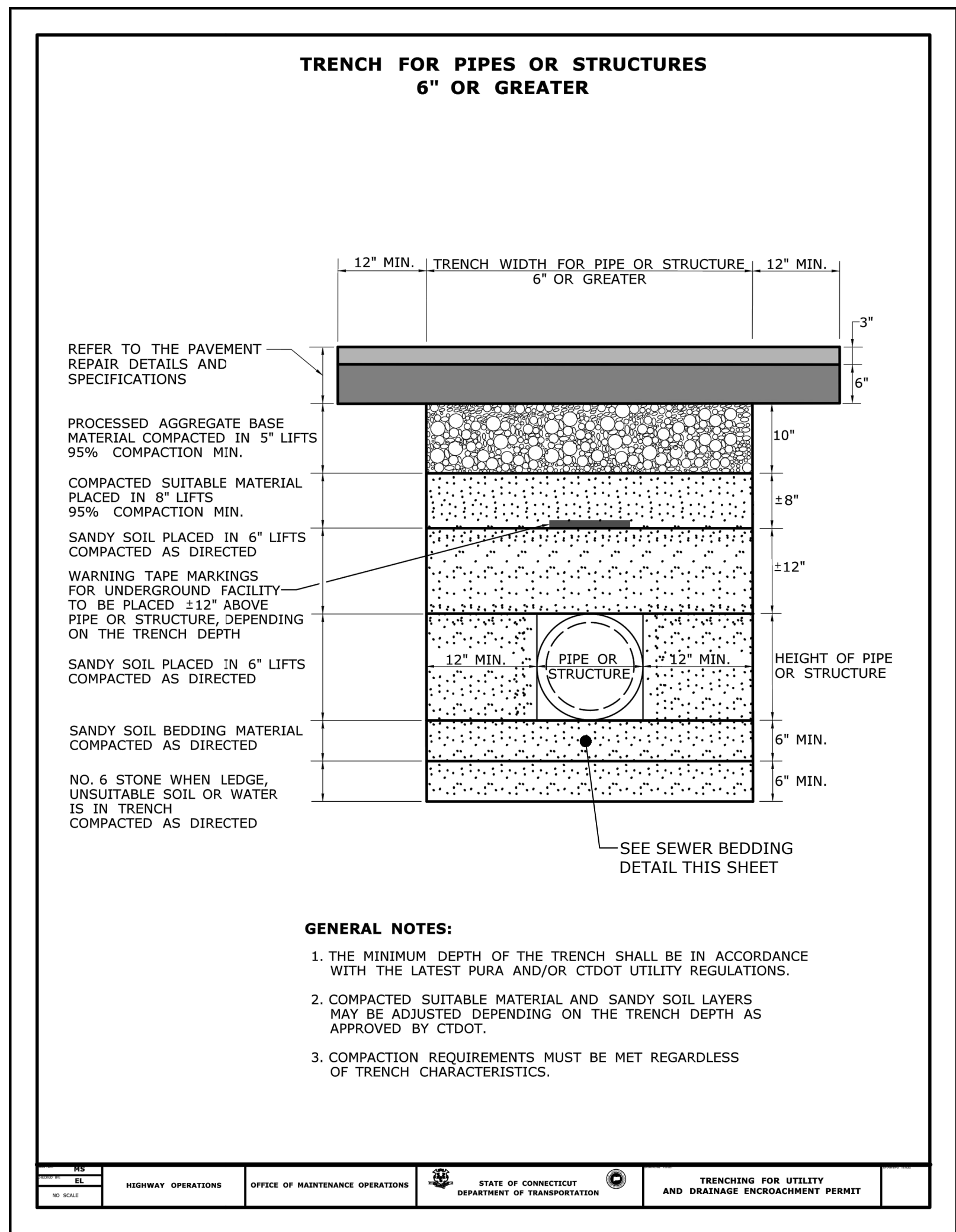
STRAW WATTLE/MULCH LOG

NO SCALE



**PLACEMENT AND CONSTRUCTION
OF HAYBALE BARRIER**

NO SCALE



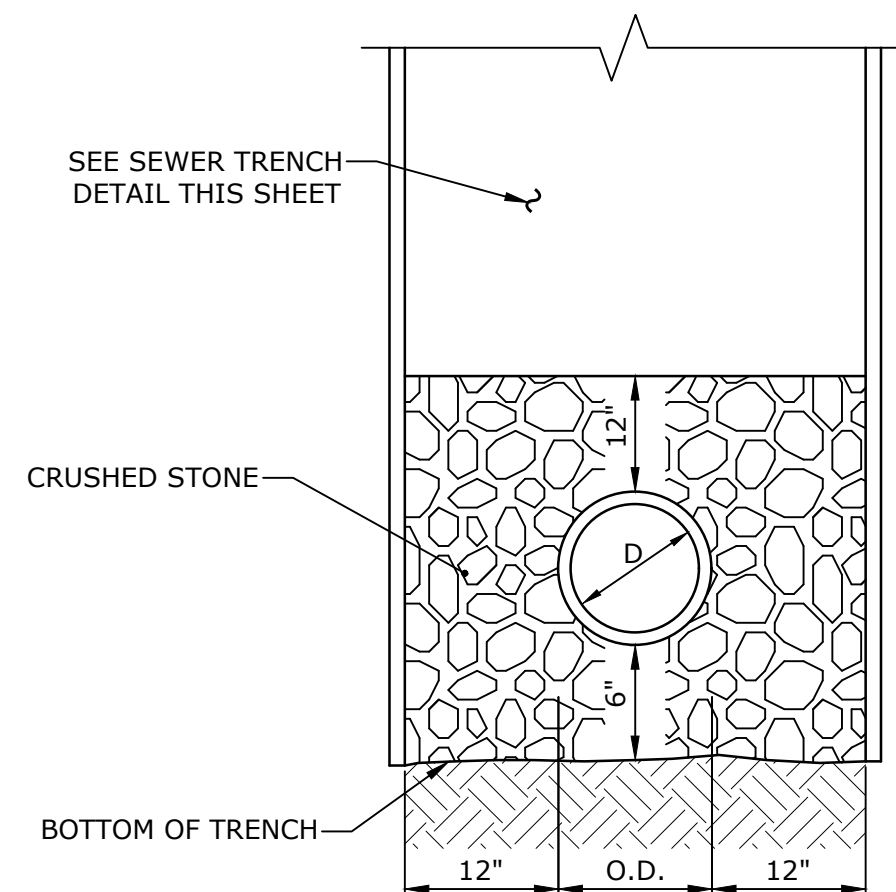
GENERAL NOTES:

- THE MINIMUM DEPTH OF THE TRENCH SHALL BE IN ACCORDANCE WITH THE LATEST PURA AND/OR CTDOT UTILITY REGULATIONS.
- COMPACTED SUITABLE MATERIAL AND SANDY SOIL LAYERS MAY BE ADJUSTED DEPENDING ON THE TRENCH DEPTH AS APPROVED BY CTDOT.
- COMPACTION REQUIREMENTS MUST BE MET REGARDLESS OF TRENCH CHARACTERISTICS.

PLN	HSW	OPM	STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	TRENCHING FOR UTILITY AND DRAINAGE ENCROACHMENT PERMIT
NO SCALE	NO SCALE	NO SCALE	NO SCALE	NO SCALE

SANITARY SEWER TRENCH >6" - STATE ROADS

NO SCALE

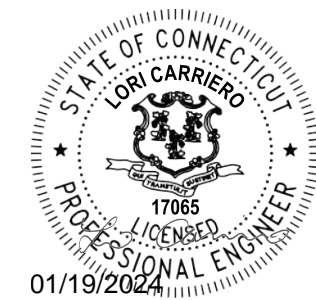
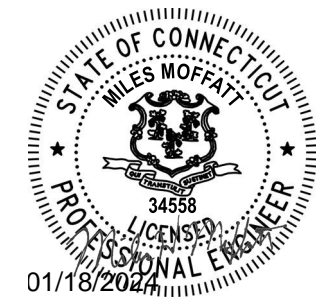


SANITARY SEWER BEDDING DETAIL - TOWN ROADS

NO SCALE

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Shelton, CT 06484
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FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

Vernon, CT

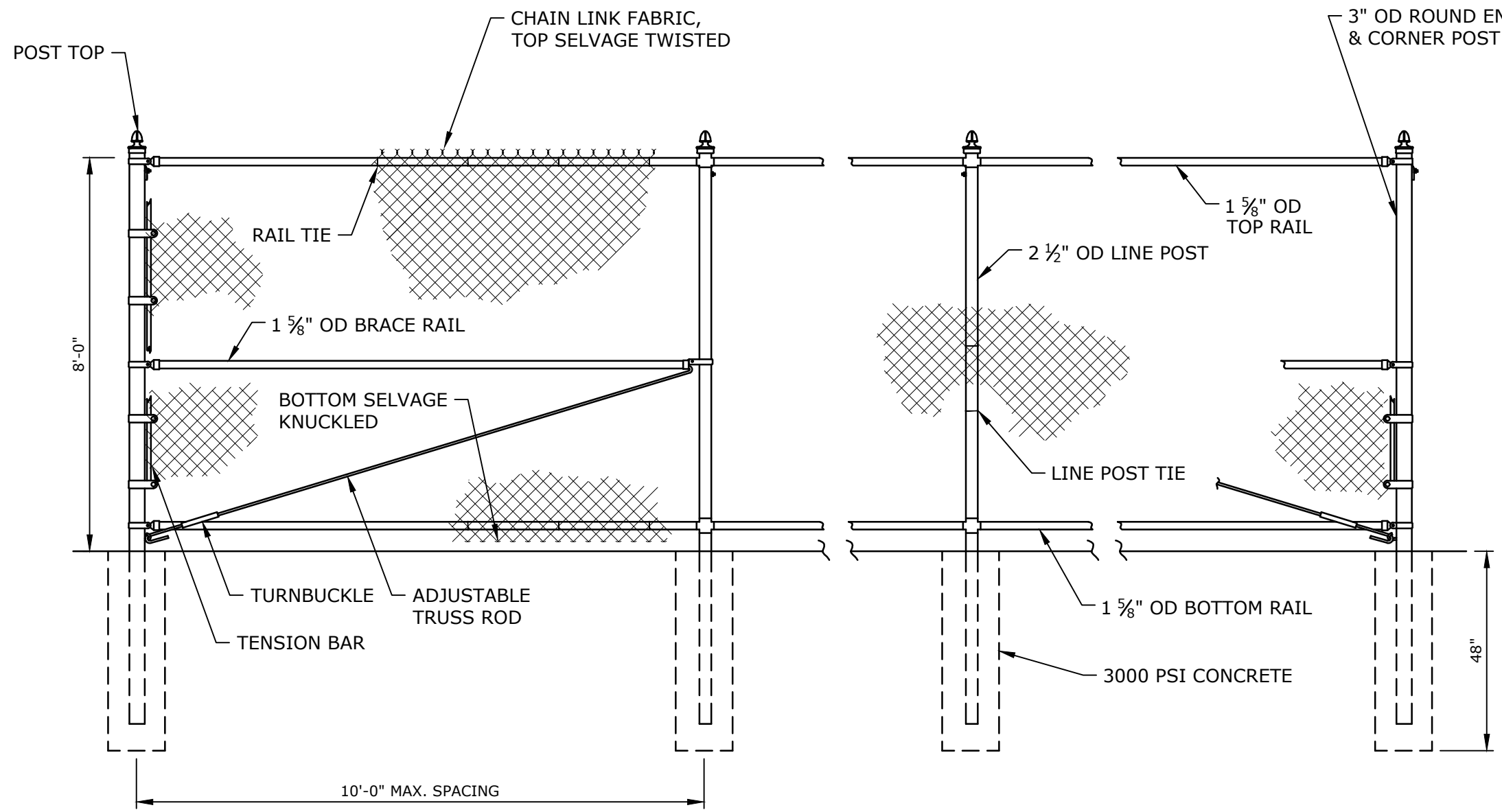
PROJECT NO:	V0037-017
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FILE:	V0037-017-C-100-PLNPR.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

DETAILS - 2

SCALE: AS SHOWN

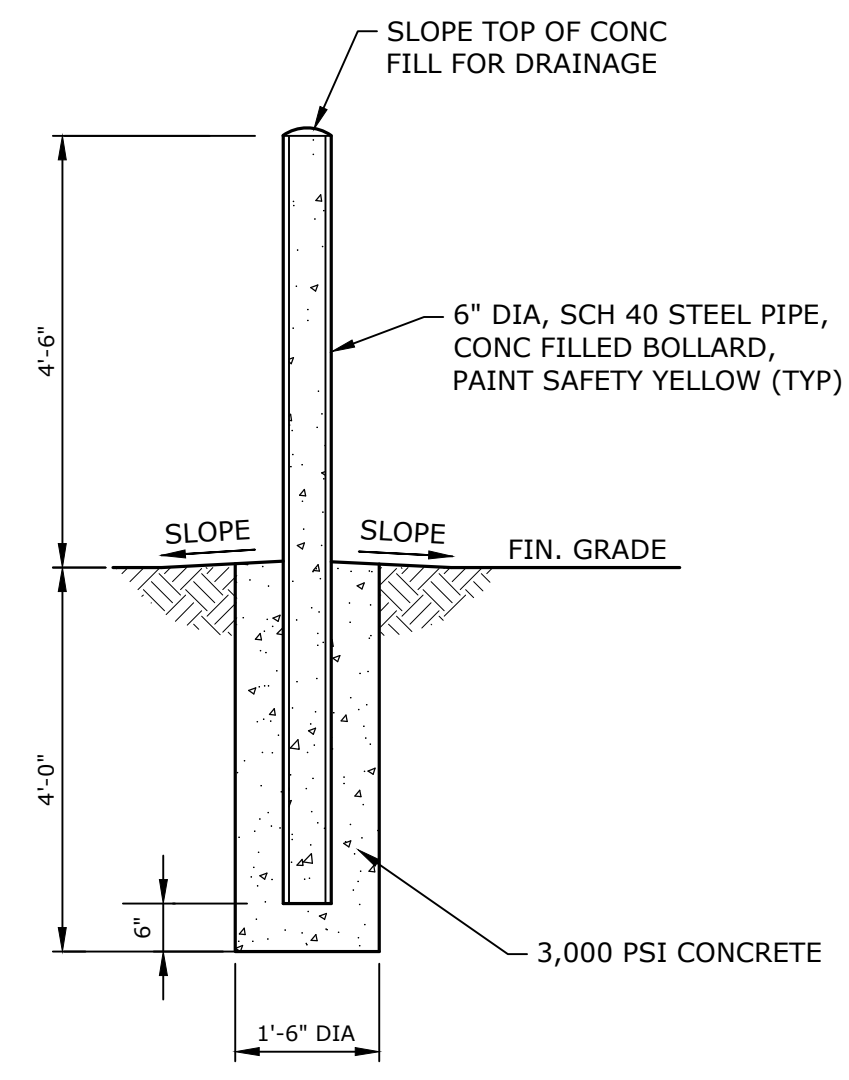
C-202

Last Saved: 1/16/2024
Plotted On: Jan 16, 2024 1:59pm By: SarisoneH
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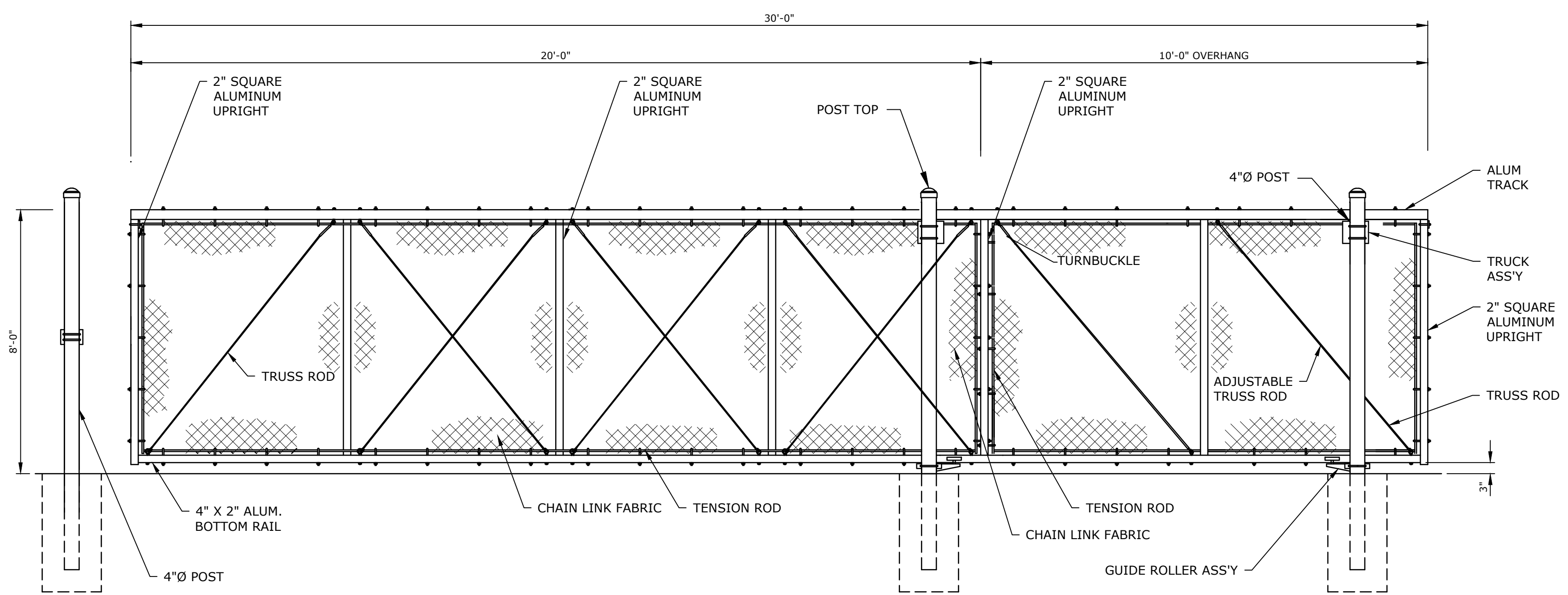
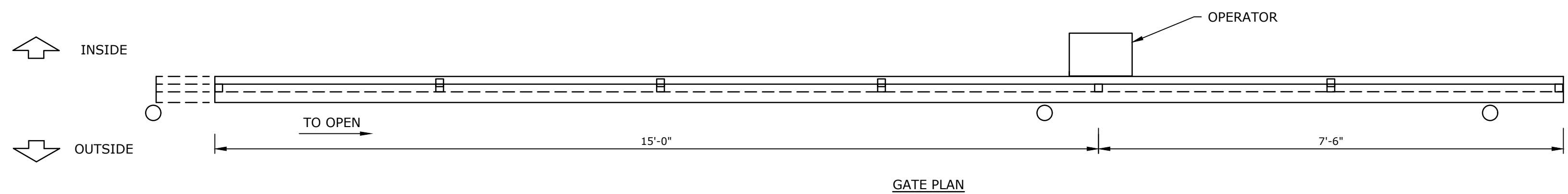


- NOTES:
1. FOOTING WIDTH TO BE (4)X POST WIDTH.
 2. FABRIC AND POSTS SHALL BE BLACK PVC COATED PER ASTM F 668 2B.

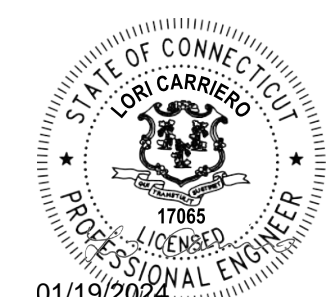
CHAIN LINK FENCE
NO SCALE



**6" DIAMETER
STEEL BOLLARD**
NO SCALE



SLIDE GATE
NO SCALE



FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

Vernon, CT

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DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

DETAILS - 3

SCALE: AS SHOWN

C-203



FOR BIDDING

Town Of
VernonExit 67 Sewer
Extension

Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-C-100-PLNPR.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

CT DOT
PAVEMENT REPAIR
DETAILS

SCALE: AS SHOWN

C-204

GENERAL NOTES:

1. LONGITUDINAL TRENCHING FOR JOINTED CONCRETE PAVEMENT:

A. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE SLAB CENTERLINE AND THE EDGE OF SLAB, REMOVE CONCRETE AND BITUMINOUS CONCRETE PAVEMENT FROM THE TRENCH EDGE TO THE EDGE OF ROAD. IF THE LONGITUDINAL TRENCH FALLS BETWEEN THE LONGITUDINAL JOINT AND THE SLAB CENTERLINE, REMOVE THE ENTIRE CONCRETE SLAB AND BITUMINOUS CONCRETE PAVEMENT TO THE EDGE OF ROAD. IN EITHER CASE REBUILD WITH THE FOLLOWING:

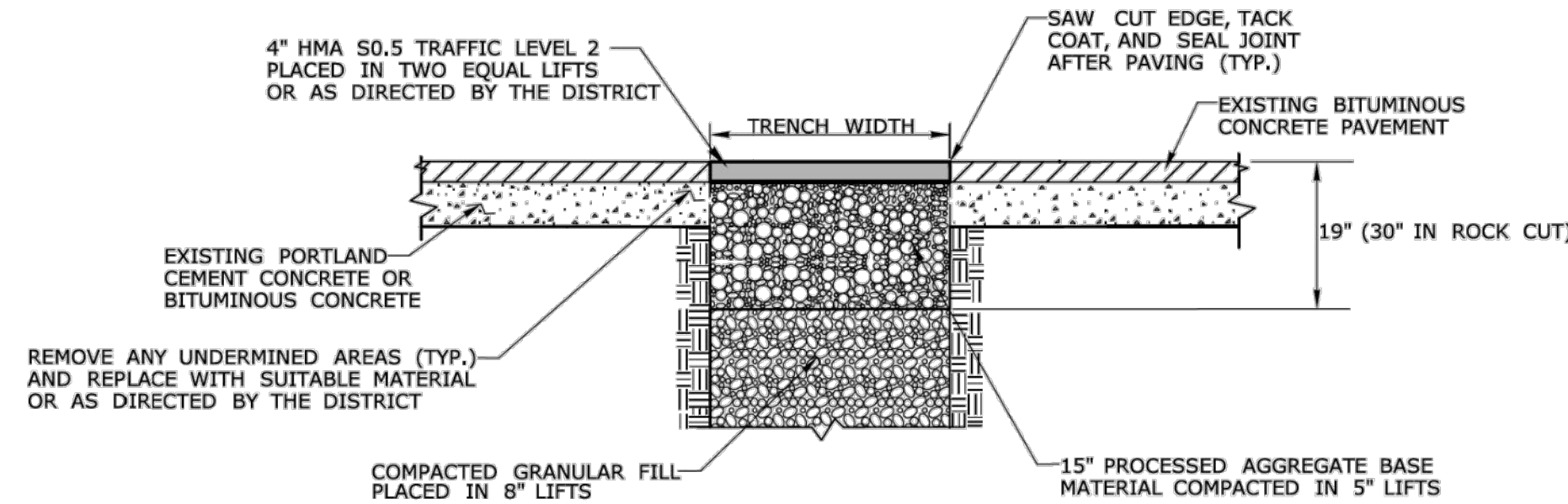
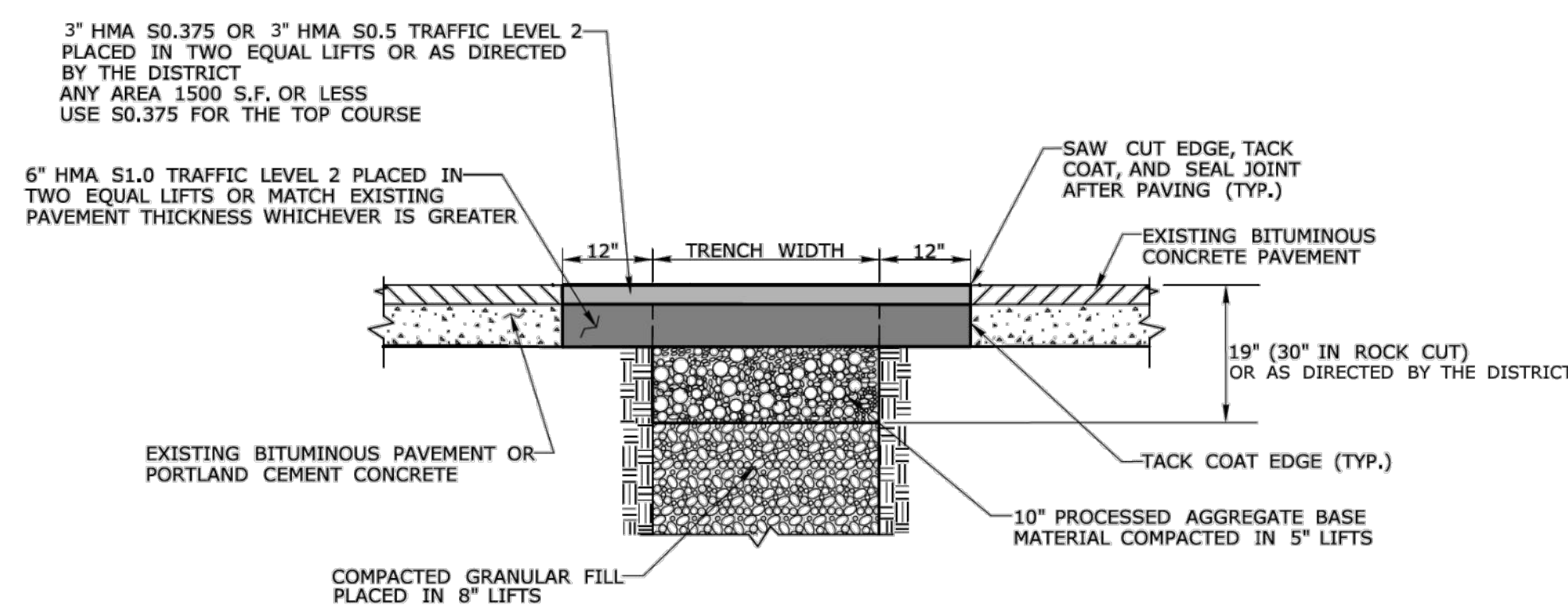
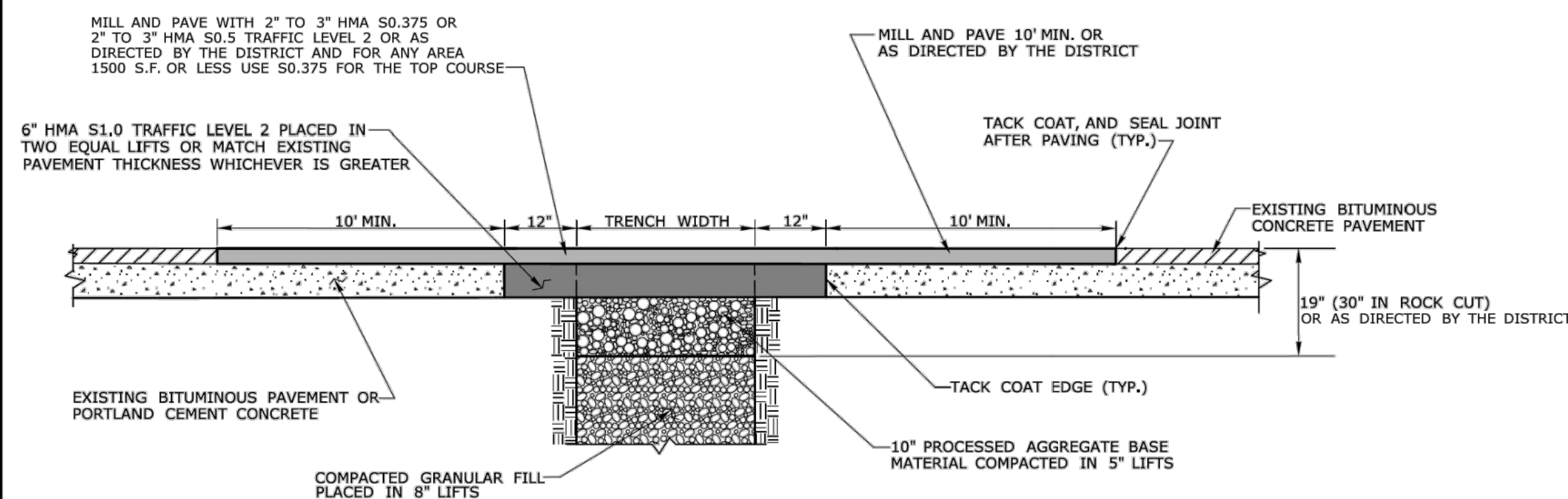
- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

2. TRANSVERSE TRENCHING FOR JOINTED CONCRETE PAVEMENT:

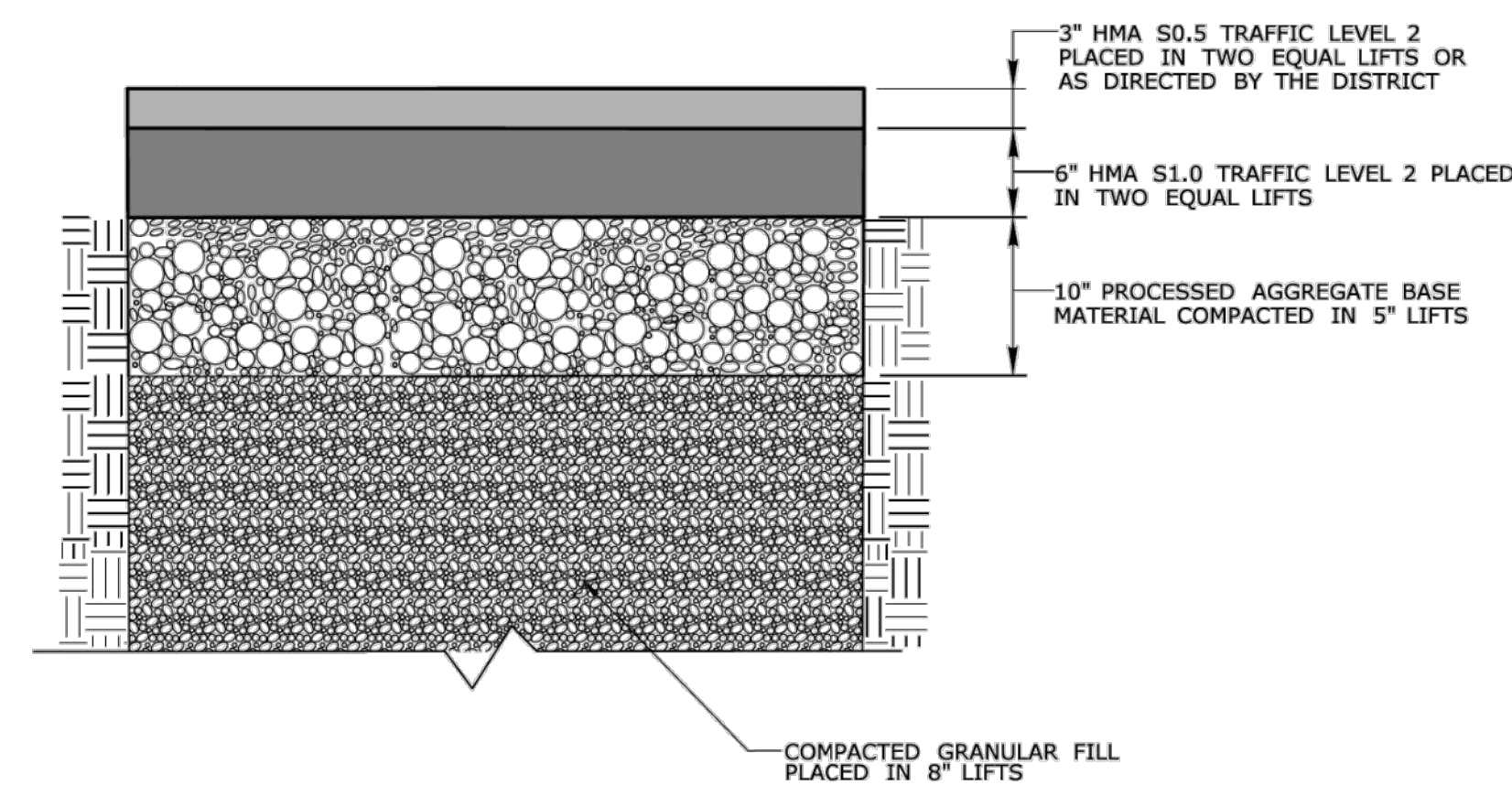
TABLE 1	
TOTAL SLAB LENGTH (L)	MIN. LENGTH REMAINING
40' OR LONGER	1/4 L
15' - 40'	10'
15' OR SHORTER	REBUILD TO NEAREST JOINT

A. FOR TRANSVERSE TRENCHES, THE MINIMUM SLAB LENGTH AS SHOWN IN TABLE 1 SHALL BE LEFT IN PLACE TO THE NEAREST TRANSVERSE JOINT. IF THIS CRITERIA CANNOT BE MET, THE EXISTING SLAB AREA FROM THE TRENCH EDGE TO THE NEAREST TRANSVERSE JOINT SHALL BE REMOVED AND REBUILT AS FOLLOWS:

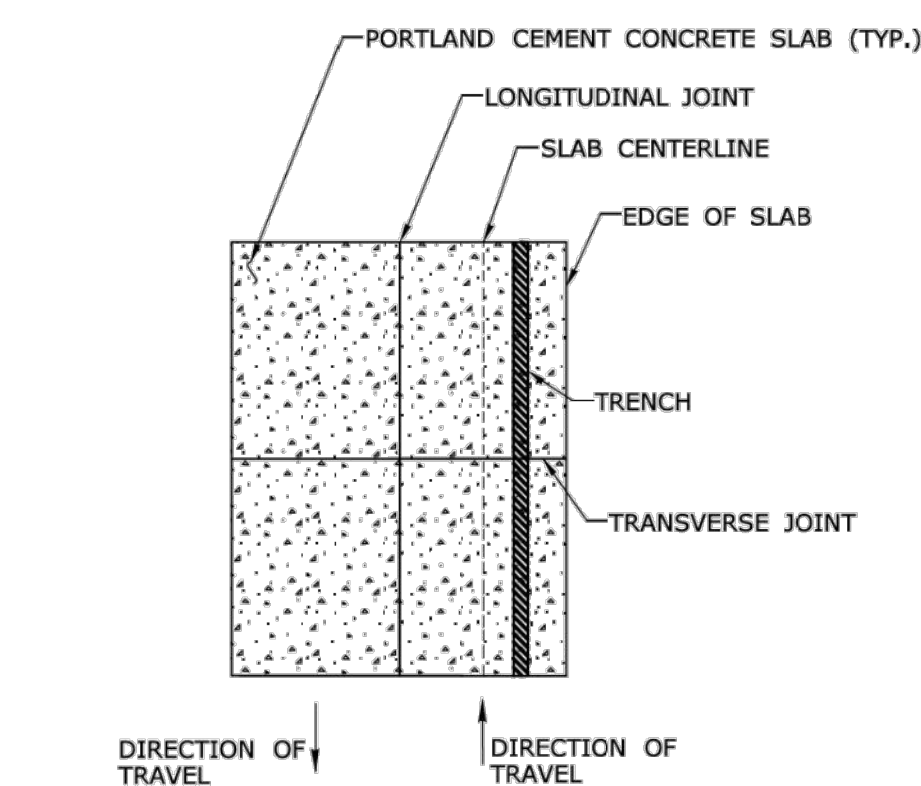
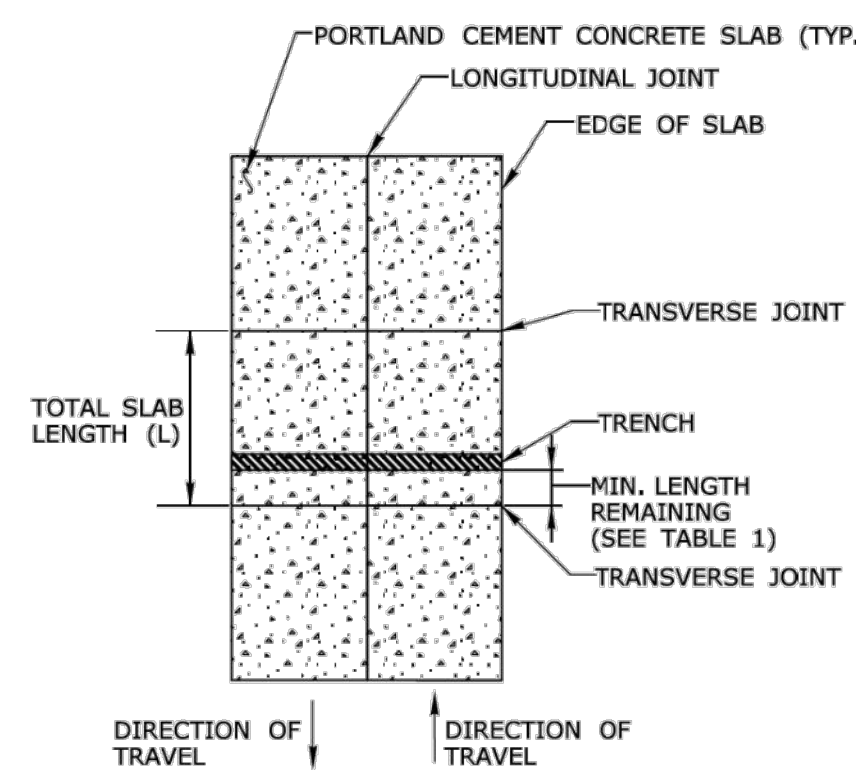
- a. PLACE HMA S1.0 TRAFFIC LEVEL 2 IN TWO EQUAL 4" - 5" LIFTS TO MATCH EXISTING CONCRETE PAVEMENT THICKNESS
b. PLACE HMA S0.5 TRAFFIC LEVEL 2 IN 2" - 3" LIFTS TO MATCH EXISTING BITUMINOUS CONCRETE PAVEMENT THICKNESS, WITH THE FINAL LIFT BEING 2"

TEMPORARY PAVEMENT REPAIR FOR TRENCH
THROUGH OVERLAID PORTLAND CEMENT CONCRETE
OR BITUMINOUS CONCRETE PAVEMENTPERMANENT PAVEMENT REPAIR WITHOUT MILLING
- THROUGH PORTLAND CEMENT CONCRETE
OR BITUMINOUS CONCRETE PAVEMENT

PERMANENT PAVEMENT REPAIR WITH MILLING



ROADWAY PROFILE

LONGITUDINAL TRENCHING
FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 1)TRANSVERSE TRENCHING
FOR JOINTED CONCRETE PAVEMENT
(SEE NOTE 2)

DRAFTER:	MS	HIGHWAY OPERATIONS	OFFICE OF MAINTENANCE OPERATIONS SPECIAL SERVICES AND PLANNING	 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION	DRAWING TITLE: ENCROACHMENT PERMIT - PAVEMENT REPAIR
CHECKED BY:	EL				
NO SCALE					



Town Of Vernon

Exit 67 Sewer Extension

Vernon, CT



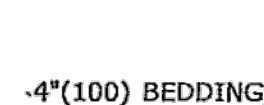
1. "CONCRETE PIPE CONNECTION" IS INTENDED FOR USE WHERE A REINFORCED CONCRETE PIPE REPAIR OR MODIFICATION IS NEEDED SOMEWHERE WITHIN A PIPE RUN WHERE A BELL/SPIGOT JOINT CANNOT BE ACHIEVED.
2. MAINTAIN INTERIOR ALIGNMENT OF PIPE AT JOINTS UNTIL CONCRETE IS PROPERLY CURED.
3. BACKFILL OF PIPE REPAIR WITH SUITABLE MATERIAL MAY NOT TAKE PLACE UNTIL CONCRETE IS PROPERLY CURED.
4. CONTRACTOR SHALL MAINTAIN LINE AND GRADE OF PIPE REPAIR OR MODIFICATION BY METHODS APPROVED BY THE ENGINEER.
5. HOLES OR GAPS AT JOINT LARGER THAN 3/8" SHALL BE FILLED OR WRAPPED TO PREVENT CONCRETE FROM ENTERING PIPE.
6. TRENCH EXCAVATION SHALL BE TO THE MAXIMUM EXTENT NEEDED TO PERFORM WORK.



1. ROCK REMOVED BEYOND THE MAXIMUM PAY LIMIT SHOWN SHALL BE REPLACED WITH CEMENT RUBBLE MASONRY AND GRANULAR FILL.
2. FILL AS REQUIRED TO CLOSE THE OPENING AS SHOWN ON THE PLANS WILL BE AT THE CONTRACTOR'S EXPENSE. HOWEVER, THE PAY LIMIT LINES MAY BE MODIFIED TO COINCIDE WITH NATURAL FAULTS OR FISSURES OF ROCK AS THE ENGINEER MAY DETERMINE.
3. COATED CORRUGATED METAL PIPE (C.C.M.P.)



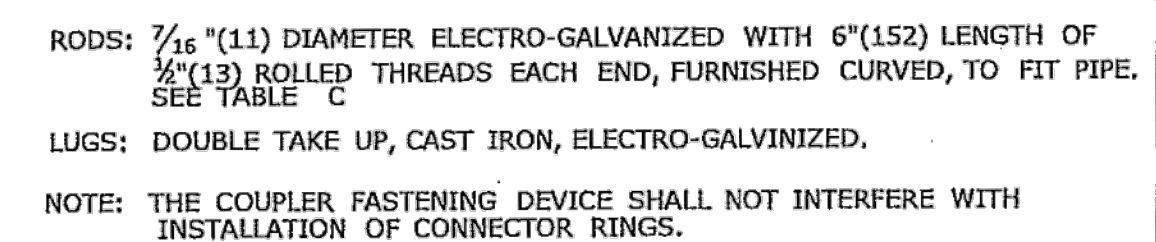
PIPE TRENCH DETAIL
WHERE GRANULAR FILL IS NOT USED



PIPE TRENCH DETAIL
WHERE GRANULAR FILL
IS USED AS BEDDING



TABLE C	
CONNECTOR RINGS	
PIPE DIAMETER	LENGTH OF RING
12" (300)	52" (1321)
15" (381)	61" (1549)
18" (457)	71" (1803)
21" (533)	80" (2032)
24" (610)	90" (2286)
30" (762)	108" (2743)
36" (915)	128" (3251)
42" (1066)	147" (3734)
48" (1219)	166" (4216)



DETAIL B
ELBOW DIMENSIONS

ALL METRIC DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

[illegible]

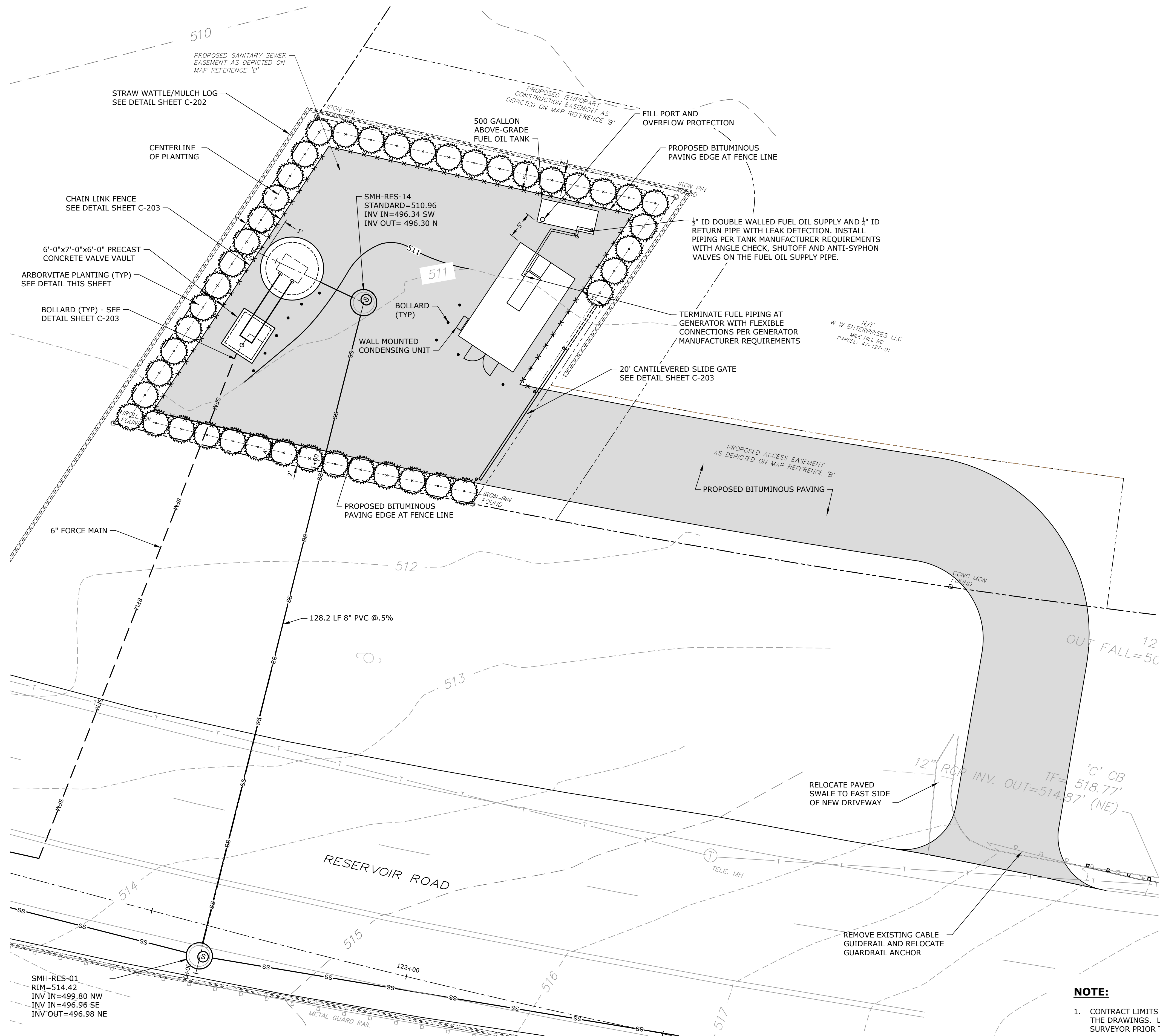
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DATE:	JANUARY 2024
FILE:	V0037-017-C-100-PLNPR.dwg
DRAWN BY:	RRB
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

C.C.M. PIPE INSTALLATION DETAILS

SCALE: AS SHOWN

C-205

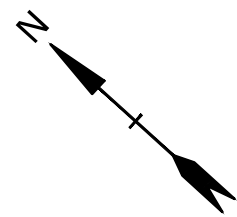
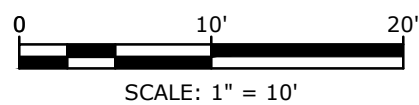
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Tighe & Bond\J\WV0037-Vernon WWP10017 - Exit 67 Sewer Extension



PUMP STATION SITE PLAN
SCALE: 1"=10'

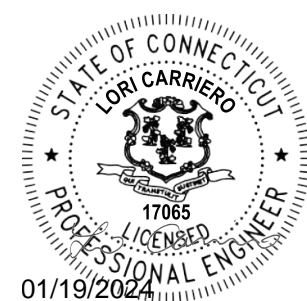
NOTE:

1. CONTRACT LIMITS FOR THE PUMP STATION WORK ARE SHOWN ON THE DRAWINGS. LIMITS SHALL BE STAKED BY A LICENSED SURVEYOR PRIOR TO THE START OF CONSTRUCTION.



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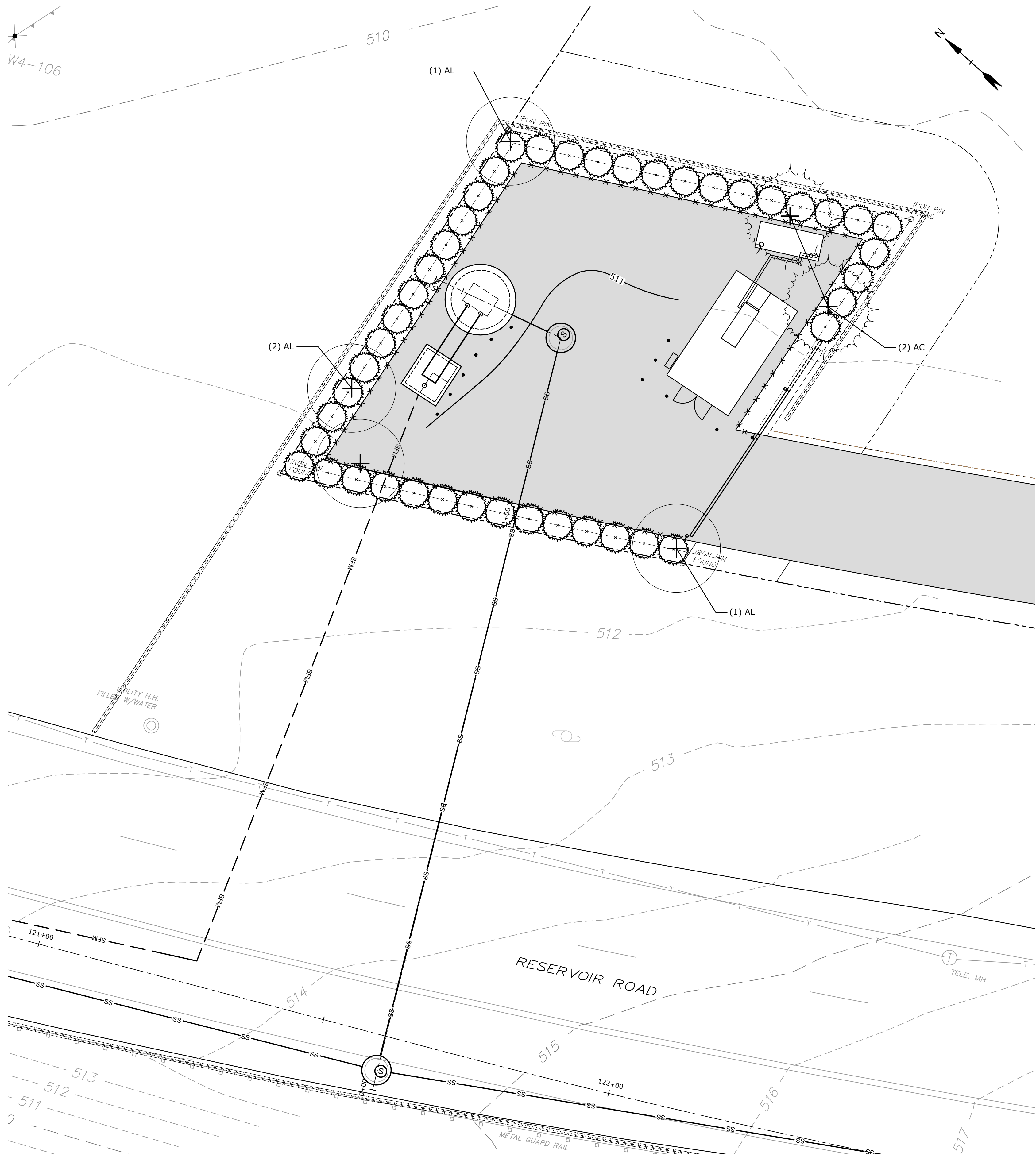
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DATE:	JANUARY 2024
FILE:	V0037-017-C-230.dwg
DRAWN BY:	TMP
DESIGNED/CHECKED BY:	LAC
APPROVED BY:	MM

PUMP STATION SITE PLAN

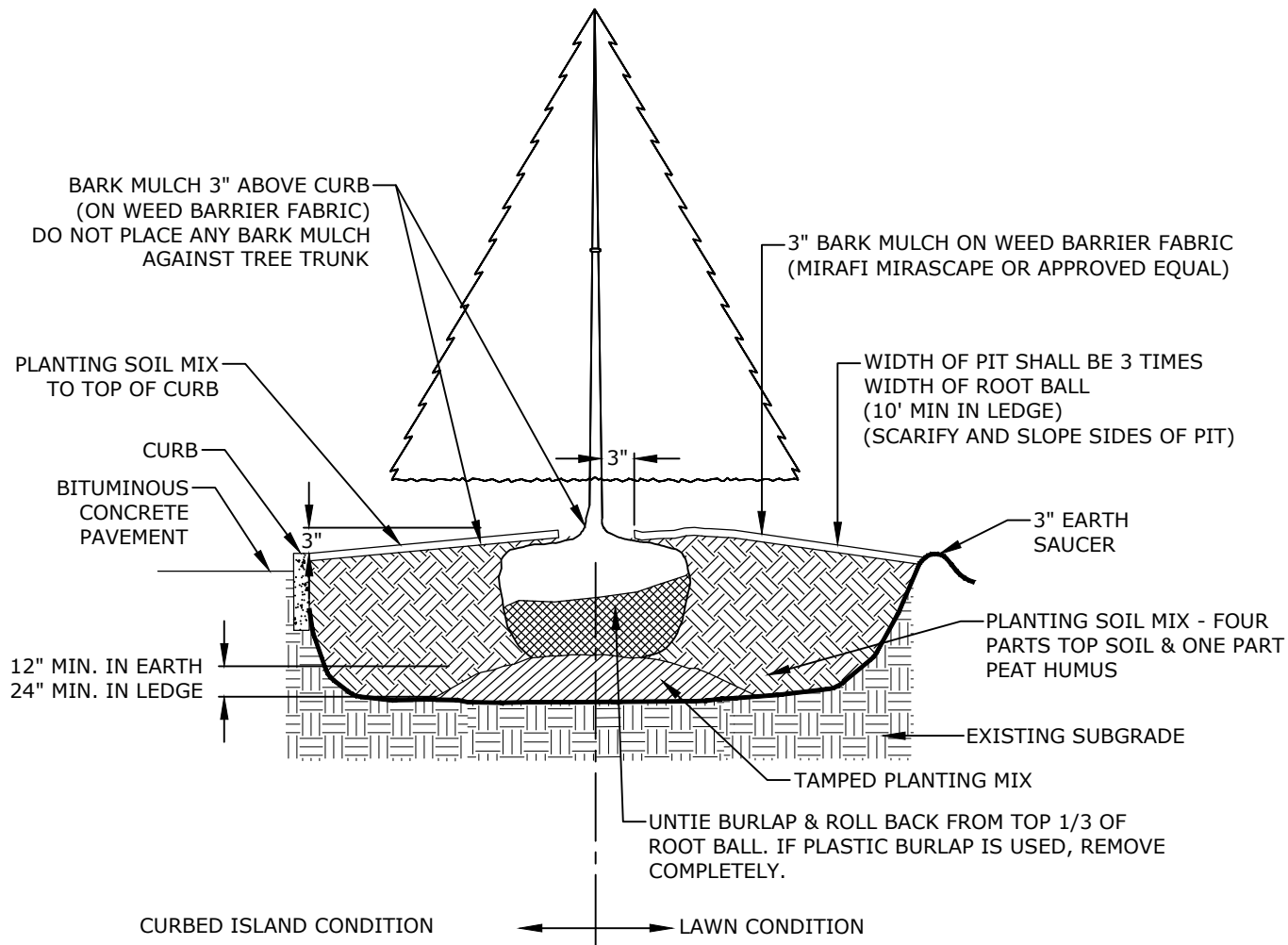
SCALE: AS SHOWN

C-230

Last Saved: 1/16/2024
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Tighe & Bond - J:\V\0037 Vernon WWP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\0037-017-L-100.dwg



PUMP STATION SITE PLAN
SCALE: 1"=10'



NOTE:
1. PLANT AT SAME DEPTH AS PREVIOUSLY PLANTED IN NURSERY, OR WITHIN 2" ABOVE.

EVERGREEN TREE PLANTING
NO SCALE

PLANTING NOTES

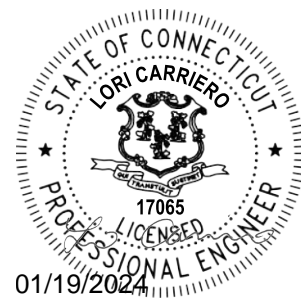
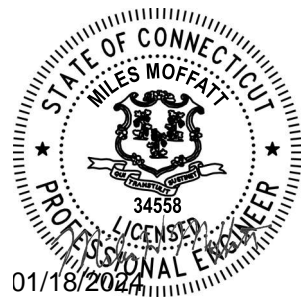
1. THE CONTRACTOR SHALL FURNISH AND PLANT ALL PLANTS IN QUANTITIES AS SHOWN ON THIS PLAN. NO SUBSTITUTIONS OF PLANT MATERIALS WILL BE PERMITTED UNLESS APPROVED BY OWNER.
2. ALL PLANTS SHALL BE NURSERY GROWN AND PLANTS AND WORKMANSHIP SHALL CONFORM TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS, INCLUDING BUT NOT LIMITED TO SIZE, HEALTH, SHAPE, ETC., AND SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO ARRIVAL ON-SITE AND AFTER PLANTING.
3. PLANT STOCK SHALL BE GROWN WITHIN THE HARDINESS ZONES 4 THRU 7 ESTABLISHED BY THE PLANT HARDINESS ZONE MAP, MISCELLANEOUS PUBLICATIONS NO. 814, AGRICULTURAL RESEARCH SERVICE, UNITED STATES DEPARTMENT AGRICULTURE, LATEST REVISION.
4. PLANT MATERIAL SHALL BARE THE SAME RELATIONSHIP TO FINISHED GRADE AS TO THE ORIGINAL PLANTING GRADE PRIOR TO DIGGING.
5. THE CONTRACTOR SHALL LOCATE, VERIFY AND MARK ALL EXISTING AND NEWLY INSTALLED UNDERGROUND UTILITIES PRIOR TO ANY LAWN WORK OR PLANTING. ANY CONFLICTS WHICH MIGHT OCCUR BETWEEN PLANTING AND UTILITIES SHALL IMMEDIATELY BE REPORTED TO THE OWNER SO THAT ALTERNATE PLANTING LOCATIONS CAN BE DETERMINED.
6. ALL DISTURBED AREAS NOT TO BE PAVED OR OTHERWISE TREATED, SHALL RECEIVE FOUR (4) INCHES OF LOAM AND SEED.
7. THREE (3) INCH BARK MULCH IS TO BE USED AROUND THE TREE AND SHRUB PLANTING AS SPECIFIED IN THE DETAILS. WHERE BARK MULCH IS TO BE USED IN A CURBED ISLAND THE BARK MULCH SHALL MEET THE TOP INSIDE EDGE OF THE CURB.
8. SEE PLANTING DETAILS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
9. PLANTING SHALL BE COMPLETED FROM APRIL 15TH THROUGH JUNE 30 OR SEPTEMBER 1 THROUGH OCTOBER 1ST. NO PLANTING DURING JULY AND AUGUST UNLESS SPECIAL PROVISIONS ARE MADE FOR DROUGHT.
10. TREES SHALL BE PRUNED IN ACCORDANCE WITH THE LATEST EDITION OF ANSI A300 "TREES, SHRUBS AND OTHER WOOD PLANT MAINTENANCE STANDARD PRACTICES".
11. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL BE WATERED WEEKLY OR MORE OFTEN IF NECESSARY DURING THE FIRST GROWING SEASON AND AS NECESSARY THROUGHOUT THE TWO YEAR MAINTENANCE PERIOD.
12. THE CONTRACTOR SHALL GUARANTEE ALL PLANTINGS TO BE IN GOOD HEALTHY, FLOURISHING AND ACCEPTABLE CONDITION FOR A PERIOD OF TWO (2) YEARS BEGINNING AT THE DATE OF ACCEPTANCE OF SUBSTANTIAL COMPLETION. ALL GRASSES, TREES AND SHRUBS THAT, IN THE OPINION OF THE OWNER OR OWNER'S REPRESENTATIVE, SHOW LESS THAN 80% HEALTHY GROWTH AT THE END OF ONE YEAR PERIOD SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
13. UPON EXPIRATION OF THE CONTRACTOR'S TWO YEAR MAINTENANCE AND GUARANTEE PERIOD, THE OWNER SHALL BE RESPONSIBLE FOR LANDSCAPE MAINTENANCE INCLUDING WATERING DURING PERIODS OF DROUGHT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL PLANTING AND LAWNS AGAINST DAMAGE FROM ONGOING CONSTRUCTION. THIS PROTECTION SHALL BEGIN AT THE TIME THE PLANT IS INSTALLED AND CONTINUE UNTIL THE FORMAL ACCEPTANCE OF ALL THE PLANTINGS.
15. PRE-PURCHASE PLANT MATERIAL AND ARRANGE FOR DELIVERY TO MEET PROJECT SCHEDULE AS REQUIRED IT MAY BE NECESSARY TO PRE-DIG CERTAIN SPECIES WELL IN ADVANCE OF ACTUAL PLANTING DATES.

PLANT SCHEDULE

TREES AC	QTY 2	BOTANICAL NAME Abies concolor	COMMON NAME White Fir	SIZE 8' - 10' Ht.	CONTAINER B&B	REMARKS 20' mature spread, pyramidal evergreen
AL	4	Amelanchier laevis	Allegheny Serviceberry	3" Cal.	B&B	Single stem

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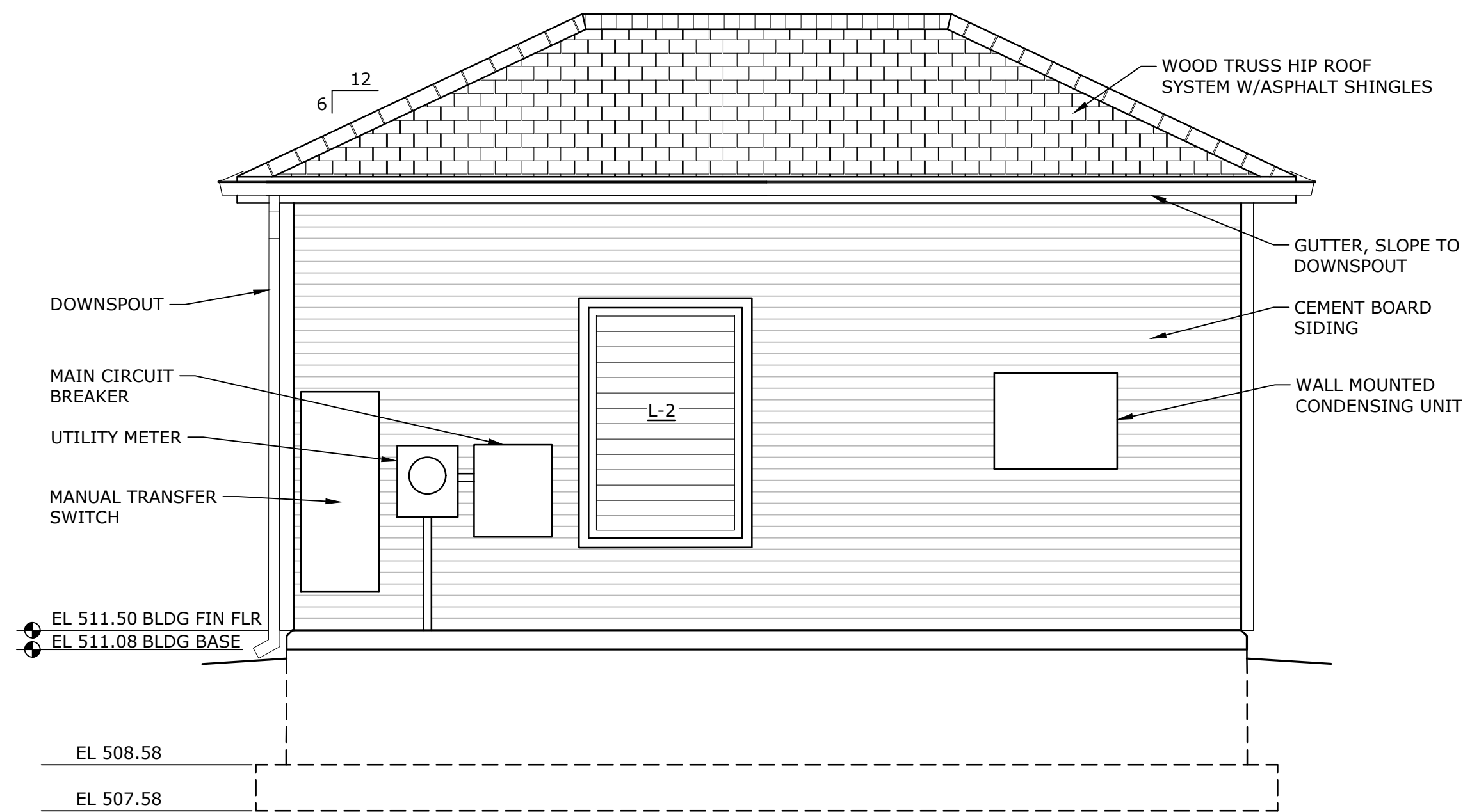
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DATE:	JANUARY 2024
FILE:	V0037-017-L-100.dwg
DRAWN BY:	JRM
DESIGNED/CHECKED BY:	BL
APPROVED BY:	NM

LANDSCAPE PLAN

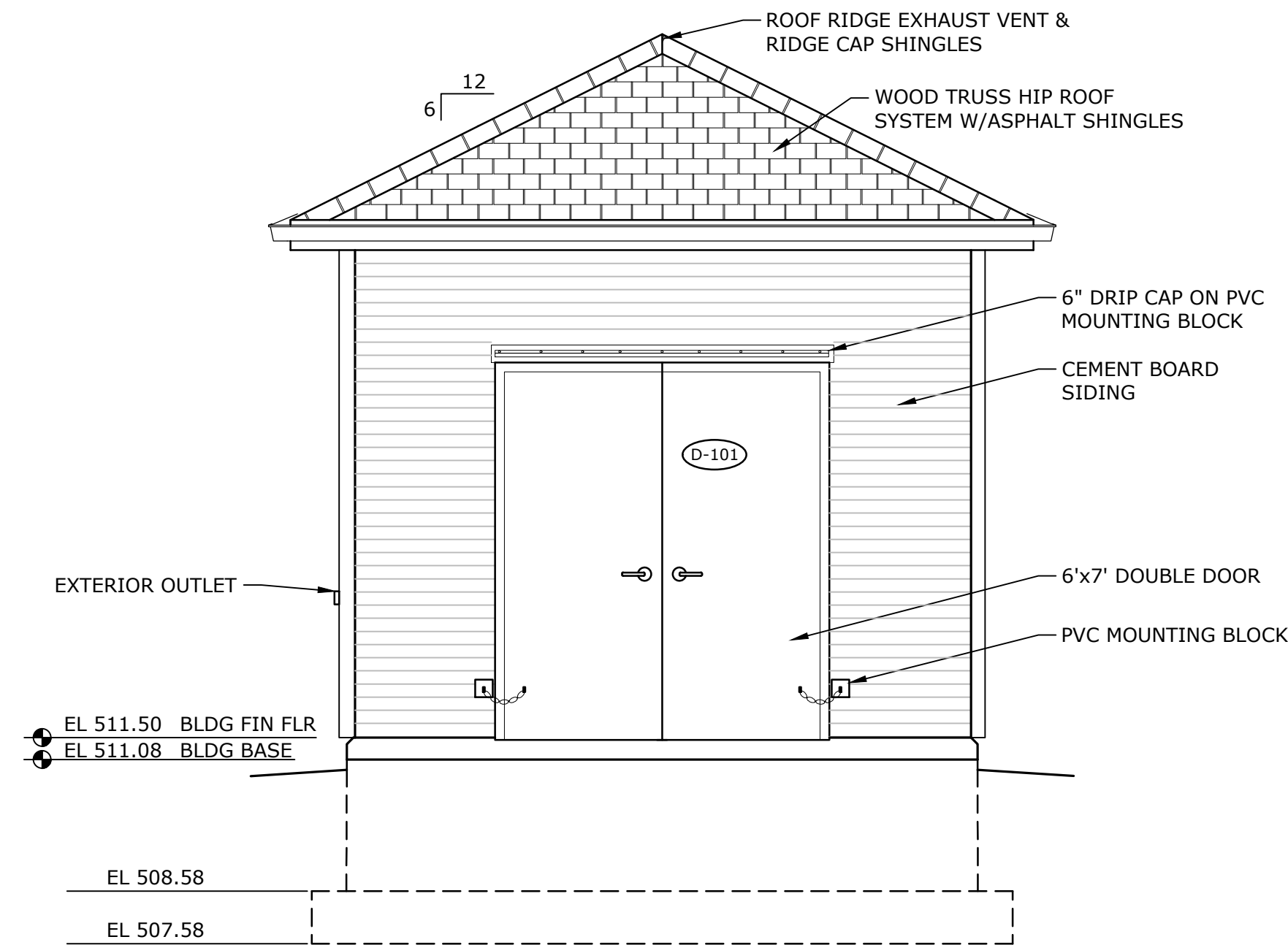
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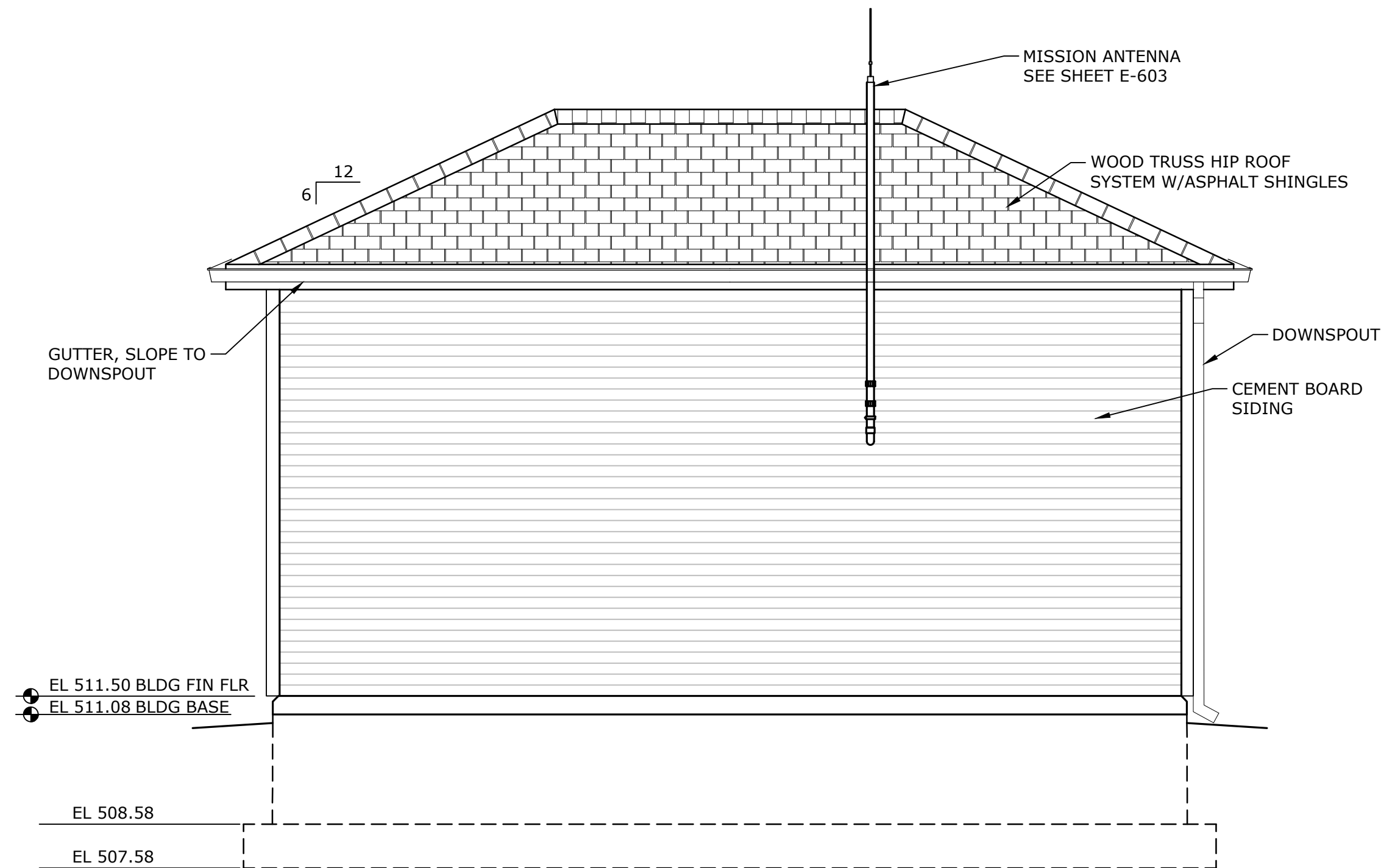
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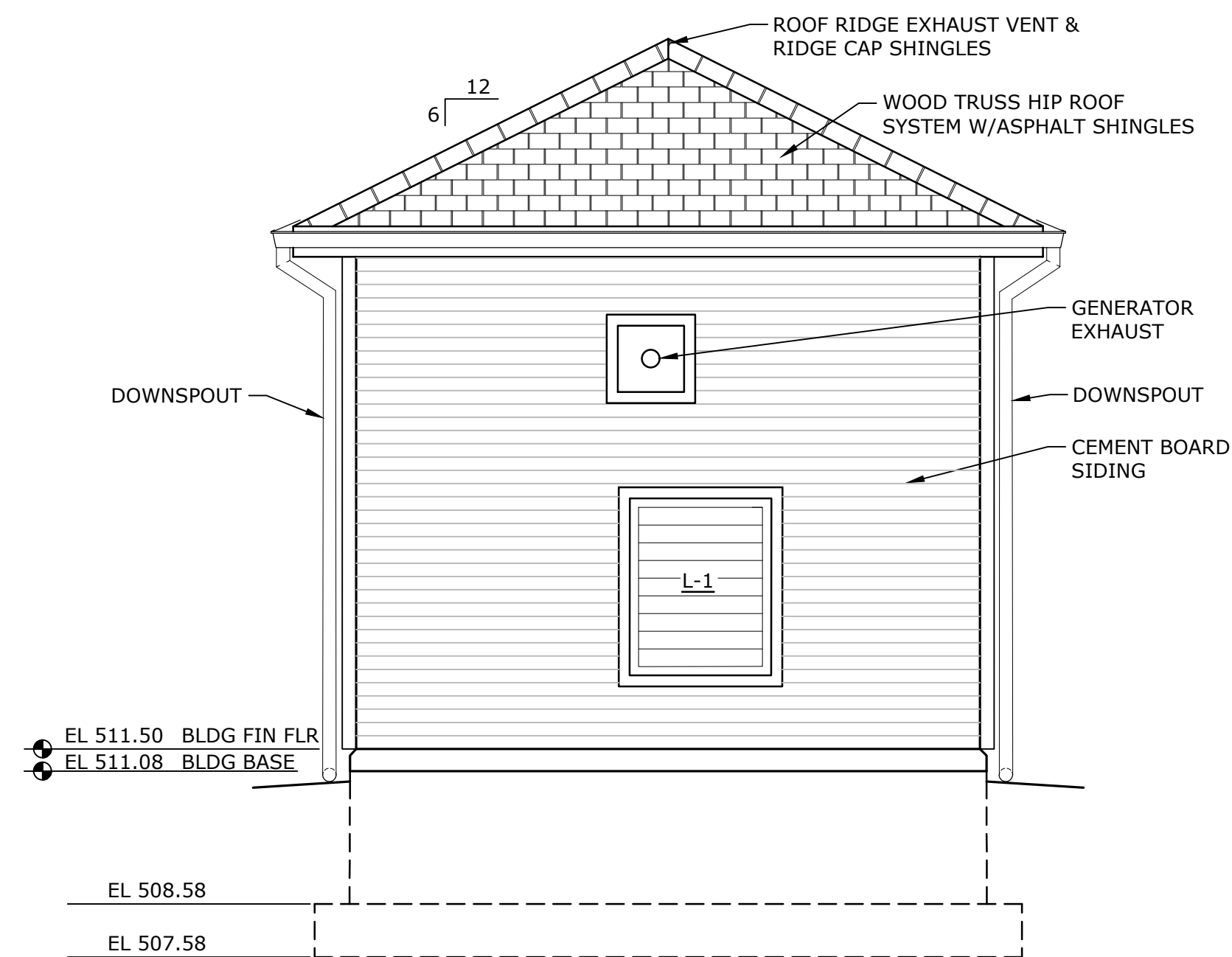
NORTH ELEVATION
SCALE: 3/8"=1'-0"



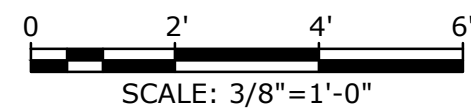
WEST ELEVATION
SCALE: 3/8"=1'-0"



SOUTH ELEVATION
SCALE: 3/8"=1'-0"



EAST ELEVATION
SCALE: 3/8"=1'-0"



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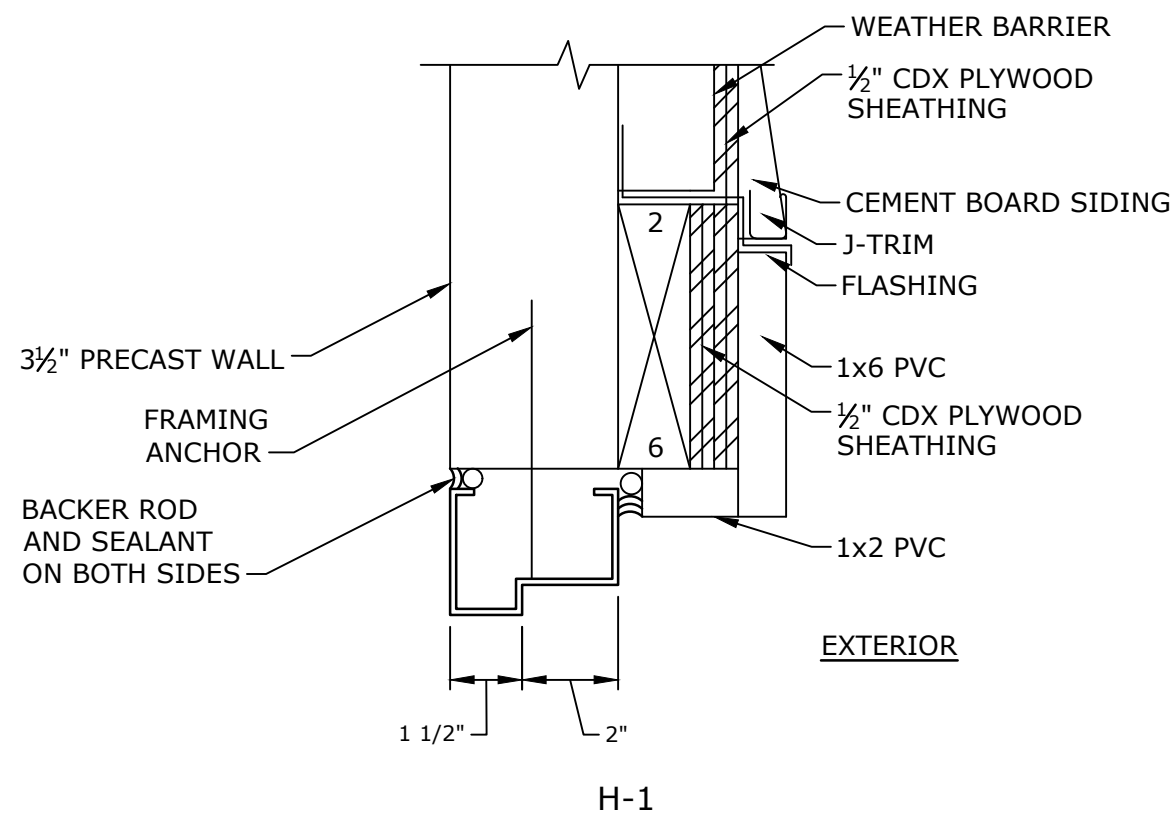
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DATE:	JANUARY 2024
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DRAWN BY:	TMP
DESIGNED/CHECKED BY:	JF
APPROVED BY:	MM, BSM

BUILDING ELEVATIONS

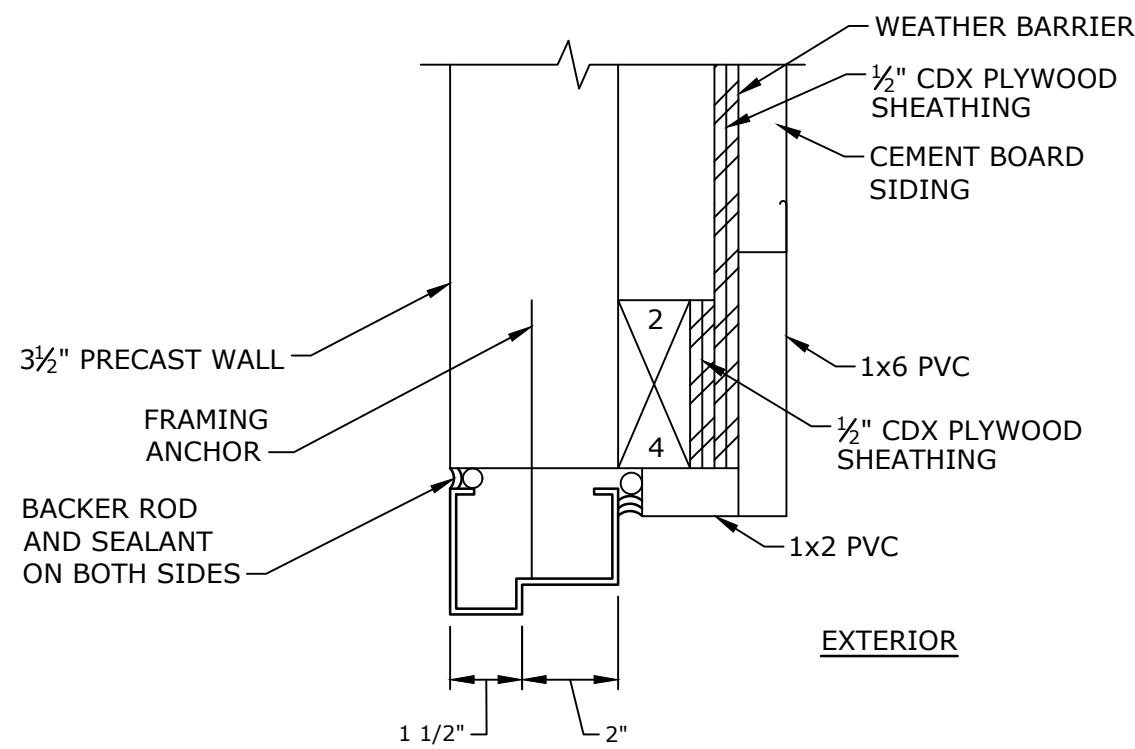
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A-201

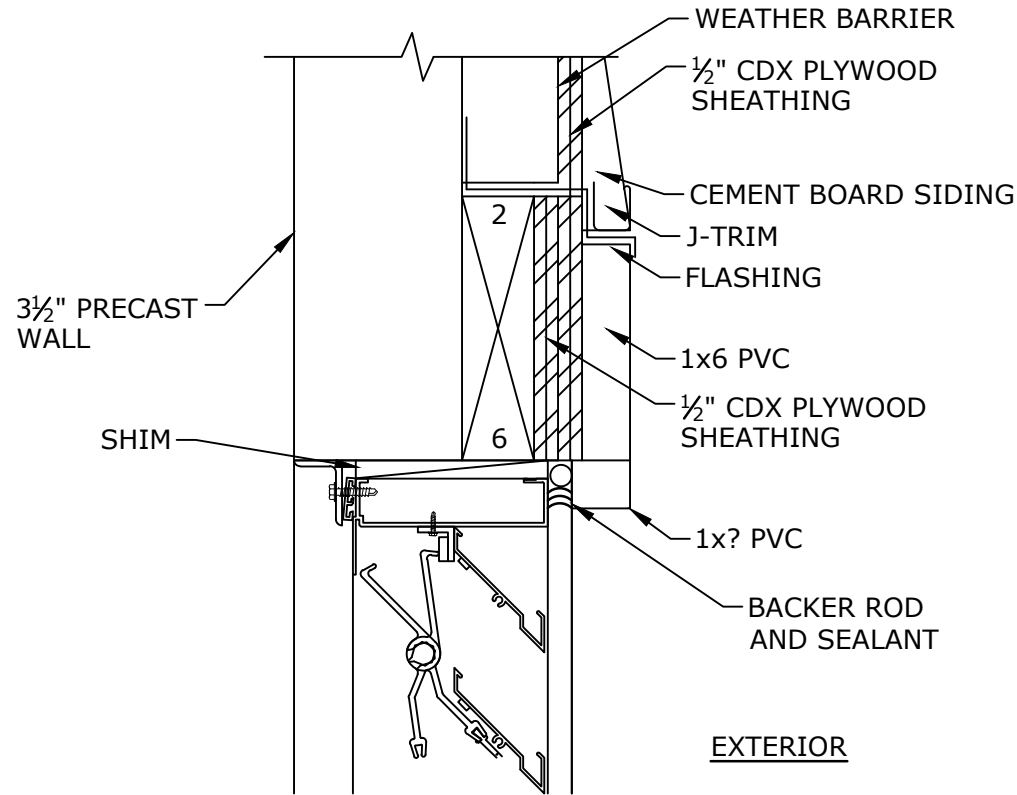
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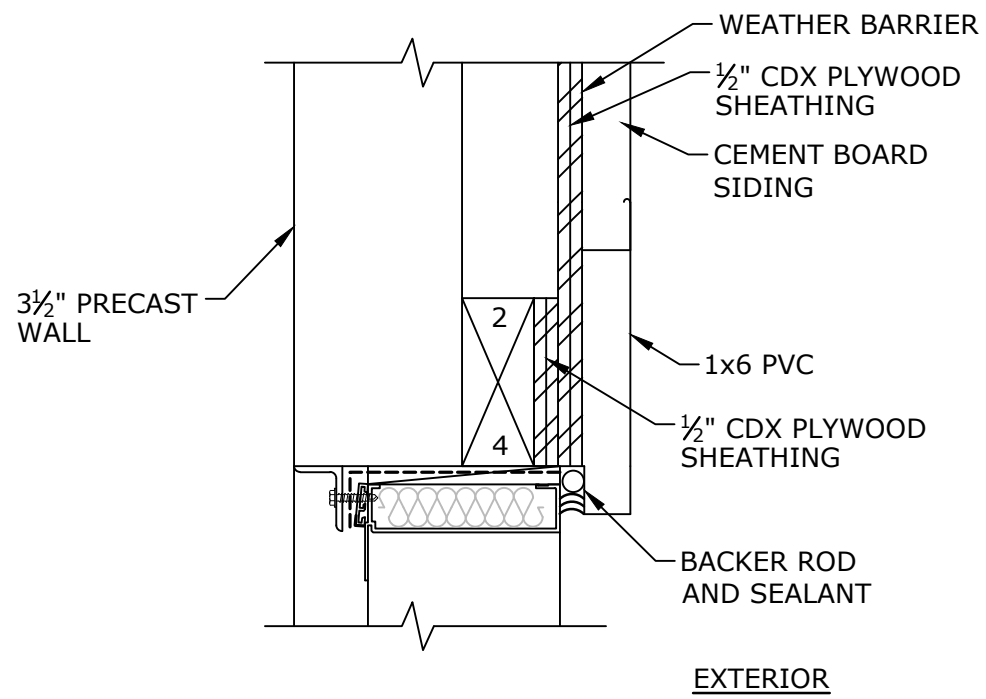
DOOR HEAD DETAIL
SCALE: 3"=1'-0"



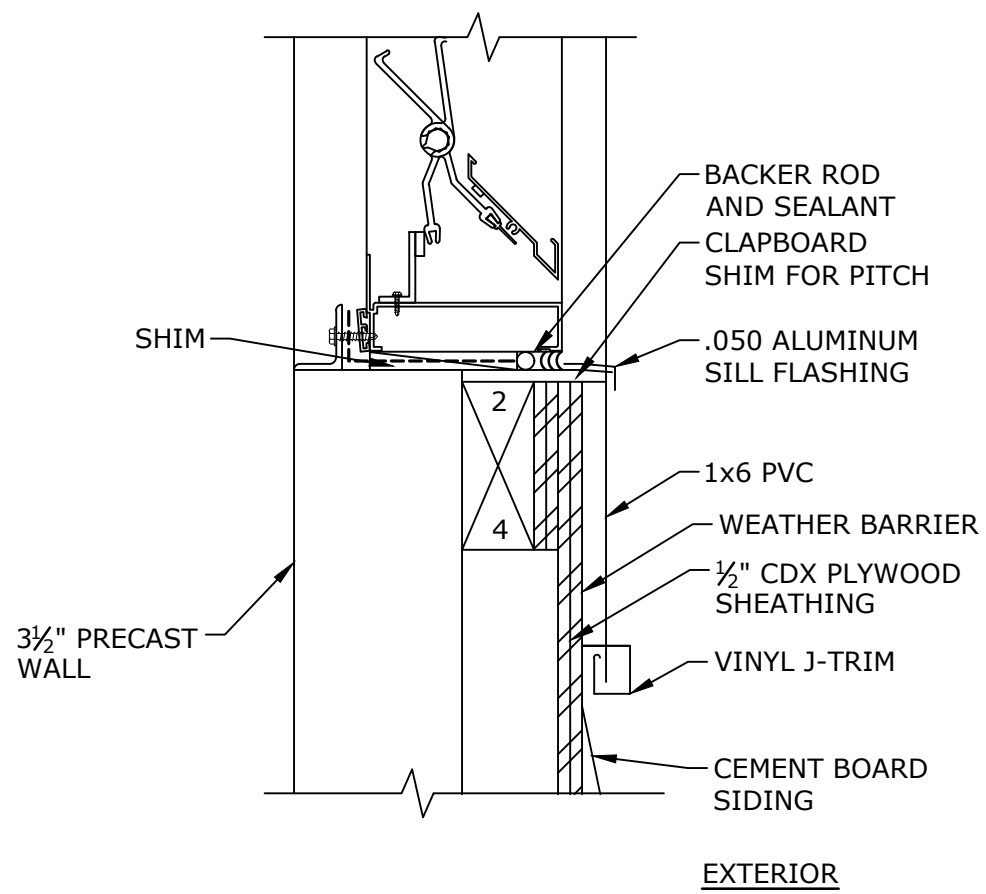
DOOR JAMB DETAIL
SCALE: 3"=1'-0"



LOUVER HEAD DETAIL
SCALE: 3"=1'-0"

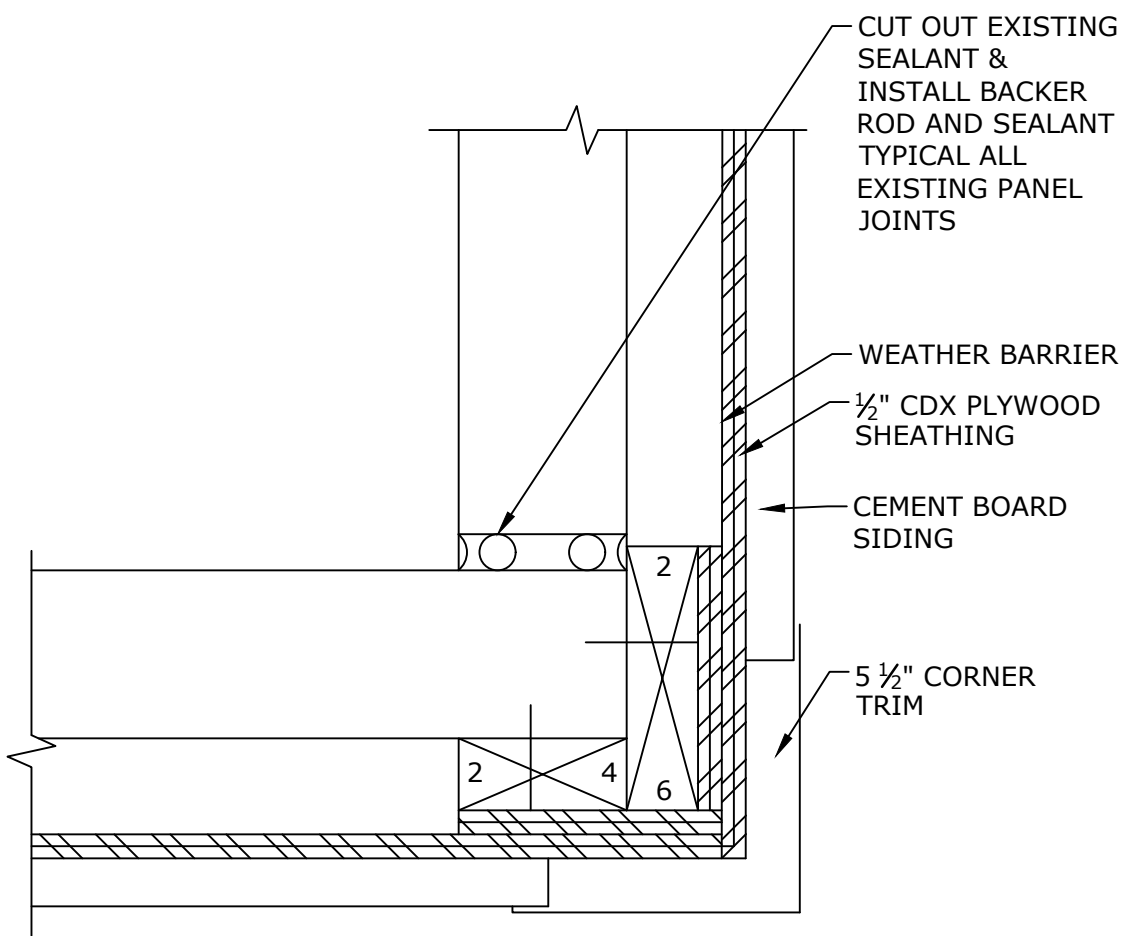


LOUVER JAMB DETAIL
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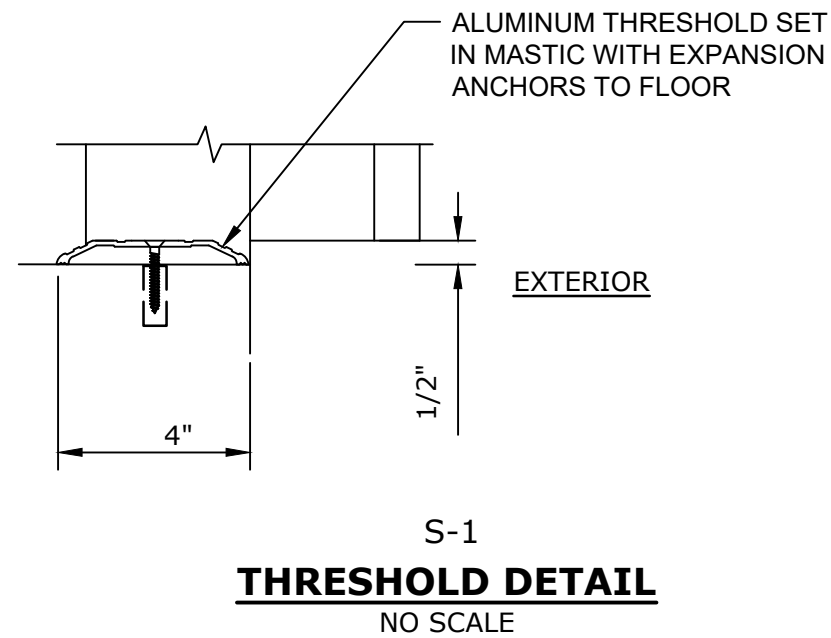


LOUVER SILL DETAIL
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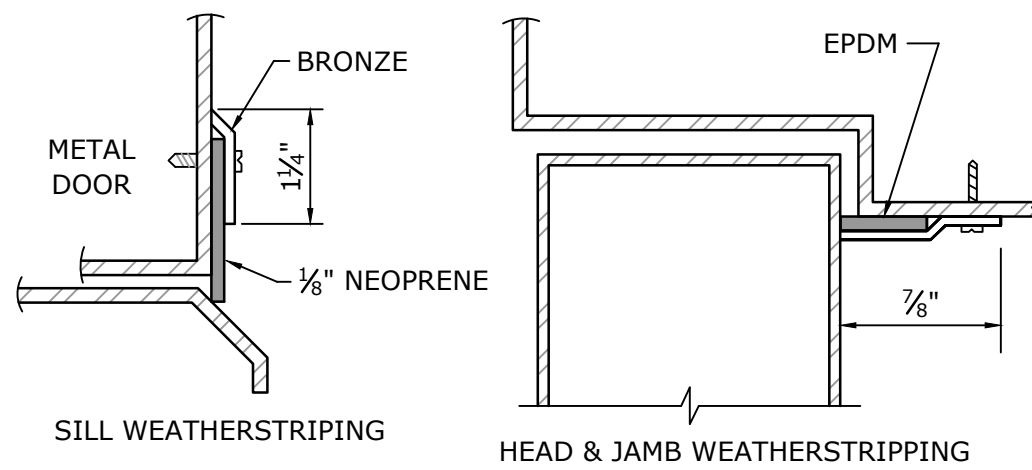
DOOR SCHEDULE															
LOCATION	DOOR NO.	DOOR SIZE	MATERIAL			DOOR TYPE	FRAME TYPE	FIRE RATING (HRS.)	DETAIL			GLAZING	WEATHER STRIPPING	HARDWARE SET	REMARKS
			DOOR	FRAME	DOOR THICKNESS				HEAD	JAMB	SILL				
ENTRY	D-1	6'-0"x7'-0"	HM	HM	1 ¾"	*	*	0	H1	J1	S1	NONE	W-1	HW-1	*INSULATED FLUSH DOOR WITH HM FRAME AS INDICATED



CORNER WALL DETAIL
SCALE: 3"=1'-0"



THRESHOLD DETAIL
NO SCALE



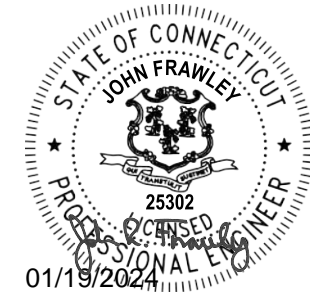
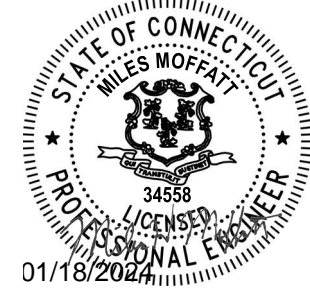
WEATHERSTRIPPING DETAIL
NO SCALE

NOTES

- ALL WOOD FRAMING SHALL BE P.T. 2x4 AND 2x6 FRAMING FASTENED TO CONCRETE PANELS WITH 3/4" x 3 1/2" CONCRETE SCREWS @ 1'4" O.C. PROVIDE MIN. 2" EDGE DISTANCE AT PANEL EDGES OF OPENINGS ENDS AND JOINTS.

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DATE:	JANUARY 2024
FILE:	V0037-017-A-501.dwg
DRAWN BY:	X
DESIGNED/CHECKED BY:	PNP
APPROVED BY:	MM

**DOOR SCHEDULE
AND DETAILS**

SCALE: AS SHOWN

A-501

Last Saved: 1/16/2024
Plotted On: Jan 16, 2024 4:2:00pm By: Sansonek
File & Send: 21\W0037_Vernon\W0037 - Exit 67 Sewer Extension Design\Drawings\AutoCAD Sheet\W0037-017-S-001.dwg

GENERAL

1. STRUCTURAL WORK SHALL CONFORM TO STATE BUILDING CODE (IBC 2021), LATEST EDITION, INCLUDING MOST RECENT ADDENDA, AND CONTRACT DOCUMENTS. IN CASE OF CONFLICT, MOST STRINGENT REQUIREMENT SHALL GOVERN.
2. CONTRACTOR SHALL VERIFY AND COORDINATE DIMENSIONS RELATED TO THIS PROJECT.
3. THE CONTRACTOR SHALL RETAIN THE SERVICES OF AN INDEPENDENT TESTING LABORATORY FOR CONCRETE AND SOILS TESTING. ALL TESTING COSTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

REINFORCEMENT

1. DETAILING, FABRICATION, AND ERECTION OF REINFORCEMENT, UNLESS OTHERWISE NOTED, SHALL CONFORM TO ACI "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318)" AND ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 315)", LATEST EDITION.
2. STEEL REINFORCEMENT UNLESS OTHERWISE SHOWN SHALL CONFORM TO ASTM A615 GRADE 60 MINIMUM (YIELD STRENGTH - 60,000 PSI).
3. PROVIDE AND SCHEDULE ON SHOP DRAWINGS, ALL NECESSARY ACCESSORIES TO HOLD REINFORCEMENT SECURELY IN POSITION: MINIMUM REQUIREMENTS SHALL BE: HIGH CHAIRS, 4'-0" ON CENTER, #5 SUPPORT BAR FOR HIGH CHAIRS, SLAB BOLSTERS, 3'-6" ON CENTER, ALL WIRE CHAIRS AND BOLSTERS TO BE PLASTIC TIPPED.
4. THE CONCRETE PROTECTIVE COVERING FOR REINFORCEMENT SHALL BE 3 INCHES FOR CAST-IN-PLACE CONCRETE CAST AGAINST EARTH, OR EXPOSED TO WATER OR WEATHER AND 2 INCHES IF CAST-IN-PLACE IS NOT CAST AGAINST EARTH, OR EXPOSED TO WATER OR WEATHER, UNLESS OTHERWISE SHOWN.
5. WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS AND LAPPED AT NECESSARY SPLICES OR HOOKED AT DISCONTINUOUS ENDS. REINFORCEMENT SHALL BE SPLICED IN ACCORDANCE WITH THE REBAR SPlice LENGTH SCHEDULE.
6. WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS, PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS, AS DETERMINED BY THE ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM REINFORCEMENT PERMITTED BY THE APPLICABLE CODES.
7. WHERE REINFORCEMENT IS CALLED FOR IN SECTION, REINFORCEMENT IS CONSIDERED TYPICAL WHEREVER THE SECTION APPLIES.
8. REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON THE DRAWINGS.
9. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT. NOTIFY ENGINEER OF COMPLETION AT LEAST 24 HOURS PRIOR TO SCHEDULED COMPLETION OF REINFORCEMENT PLACEMENT.
10. REINFORCEMENT SHALL BE SET BEFORE PLACING CONCRETE. SETTING ANY REINFORCEMENT INTO WET CONCRETE IS PROHIBITED.

FOUNDATIONS

1. NO CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN GROUND.
2. BOTTOM OF FOUNDATION ELEVATIONS GIVEN ON DRAWINGS ARE TO BE CONSIDERED MINIMUM DEPTHS. CONTRACTOR SHALL HAVE FURTHER EXCAVATION AS REQUIRED TO REACH FIRM BEARING SURFACE AS DETERMINED BY ENGINEER.
3. ALL EXCAVATIONS FOR FOOTINGS SHALL BE FINISHED BY HAND FOR THE LAST 6".
4. ALL FINISHED EXCAVATIONS SHALL BE INSPECTED BY THE ENGINEER BEFORE ANY CONCRETE IS PLACED.
5. ALL BACKFILL UNDER OR ADJACENT TO ANY PORTION OF THE STRUCTURES SHALL BE COMPACTED IN 6" LIFTS.
6. REMOVE UNSUITABLE MATERIAL AND REPLACE WITH MATERIAL AS DIRECTED BY ENGINEER.
7. FROZEN MATERIAL MAY NOT BE USED AS BACKFILL.
8. ALL STOCKED MATERIALS SHALL BE PROTECTED FROM FREEZING.

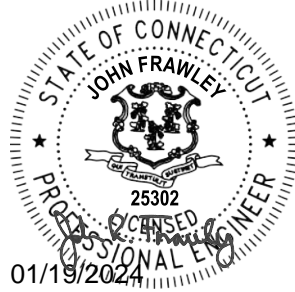
CONCRETE

1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318), AND SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDING (ACI 301).
2. CONCRETE SHALL BE CONTROLLED CONCRETE, PROPORTIONED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY OR THE ENGINEER.
3. CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND SHALL HAVE A COMPRESSIVE STRENGTH OF 4,500 PSI AT 28 DAYS, SHALL BE AIR ENTRAINED BETWEEN 4.5 AND 7.5 PERCENT, SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.45, AND SHALL HAVE A TOTAL CEMENTITIOUS MATERIAL IN THE MIX BETWEEN 635 LBS (MIN) AND 658 LBS (MAX) PER CUBIC YARD.
4. CONCRETE MATERIALS:
PORTLAND CEMENT: TYPE II, OR 1L, MEETING REQUIREMENTS OF ASTM C150
FLY ASH: CLASS F CONFORMING TO ASTM C989
GROUND GRANULATED BLAST SLAG: CONFORMING TO ASTM C989
FINE AGGREGATE: NATURAL SAND CONFORMING TO ASTM C33 WITH A FINENESS MODULUS =2.75 (PLUS/MINUS 0.25)
COARSE AGGREGATE: 3/4" PROCESSED STONE CONFORMING TO ASTM C33,
WATER: SHALL BE CLEAN, POTABLE
MID-RANGE WATER REDUCING AGENT: CONFORMING TO ASTM C494 TYPE A
HIGH-RANGE WATER REDUCING AGENT: CONFORMING TO ASTM C494 TYPE F
AIR-ENTRAINING AGENT: CONFORMING TO ASTM C260
5. CONCRETE SLAB SHALL BE CAST SO THAT THE SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON THE DRAWINGS.
6. CONCRETE SHALL BE PLACED WITHOUT HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED.
7. EXPOSED EDGES OF CONCRETE ELEMENTS SHALL HAVE CHAMFERED CORNERS.
8. CONCRETE SLUMP SHALL BE BETWEEN 3 INCHES AND 5 INCHES AFTER ADDITION OF HIGH RANGE WATER REDUCER.
9. ACCELERATING ADMIXTURES WILL NOT BE ACCEPTED.
10. GROUND GRANULATED BLAST FURNACE SLAG MAY BE SUBSTITUTED FOR UP TO 40 PERCENT BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL. FOR BELOW GRADE STRUCTURES, FLY ASH SHALL BE SUBSTITUTED FOR A MINIMUM OF 15 PERCENT AND A MAXIMUM OF 25 PERCENT OF THE TOTAL CEMENTITIOUS MATERIAL, OR GROUND GRANULATED BLAST FURNACE SLAG SHALL BE SUBSTITUTED FOR A MINIMUM OF 25 PERCENT AND A MAXIMUM OF 40 PERCENT OF THE TOTAL CEMENTITIOUS MATERIAL.
11. FOR CONCRETE FLATWORK WITH A STEEL TROWEL FINISH, FLY ASH MAY BE SUBSTITUTED FOR UP TO 10 PERCENT BY WEIGHT AND GROUND GRANULATED IRON BLAST-FURNACE SLAG MAY BE SUBSTITUTED FOR UP TO 25 PERCENT BY WEIGHT OF THE TOTAL CEMENTITIOUS MATERIAL.
12. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING IN ACCORDANCE WITH THE FOLLOWING REQUIREMENTS: CURING SHALL BE ACCOMPLISHED BY A CONTINUOUS SOAKING PROCESS SUCH AS THE USE OF SOAKER HOSE OR SPRINKLERS, OR BY USE OF PLASTIC ROLL MATERIALS TO COVER THE CONCRETE, WHICH SHALL BE THOROUGHLY WETTED AT LEAST ONCE A DAY OR MORE OFTEN AS REQUIRED IN VERY HOT WEATHER. SUCH PLASTIC SHALL BE PLACED AS SOON AS POSSIBLE AFTER FINISHING OF CONCRETE AS IS PROPER SO THAT SCARRING OF THE SURFACE WILL NOT OCCUR. PLASTIC SHALL BE HELD IN PLACE ON THE SURFACE OF THE CONCRETE IN SUCH A MANNER AND MEANS AS WILL NOT ALLOW IT TO BE BLOWN OFF OR OTHERWISE DISLODGED FROM THE CONCRETE SURFACE. CURING PROCEDURES SHALL BE MAINTAINED CONTINUOUSLY FOR A PERIOD OF AT LEAST 7 DAYS.
13. CONCRETE SHALL NOT BE ALLOWED TO FLOW HORIZONTALLY OVER DISTANCES EXCEEDING 10 FEET OR DROPPED VERTICALLY OVER 6 FEET.
14. THOROUGHLY CONSOLIDATE EACH LAYER OF CONCRETE BY RODDING AND VIBRATING USING INTERNAL TYPE MECHANICAL VIBRATOR.
15. DO NOT USE VIBRATORS TO MOVE CONCRETE. VIBRATION SHALL BE SUPPLEMENTED BY SPADING TO REMOVE BUBBLES AND HONEYCOMBS ADJACENT TO VISIBLE SURFACES.
16. IMMEDIATELY AFTER THE END OF THE WET CURE PERIOD, REMOVE FORM TIES AND PATCH ALL TIE-HOLES, RAT HOLES AND OTHER SURFACE VOIDS WITH A NON-METALLIC, NON-SHRINK GROUT, WHICH MOST NEARLY MATCHES THE COLOR AND TEXTURE OF THE CONCRETE SURFACE. ALL PROTRUSIONS SHALL BE GROUND SMOOTH WITH AN APPROVED MECHANICAL GRINDER.
17. COLD WEATHER CONDITIONS SHALL BE IMPLEMENTED IN ACCORDANCE WITH ACI 306.1-90 WHEN FOR MORE THAN THREE SUCCESSIVE DAYS THE AVERAGE DAILY OUTDOOR TEMPERATURE DROPS BELOW 40°F.
18. DURING COLD WEATHER CONCRETE PROCEDURES, THE CONCRETE TEMPERATURE AT THE TIME OF PLACEMENT SHALL BE AS SPECIFIED:
A. TABLE - CONCRETE TEMPERATURE DURING COLD WEATHER CONDITIONS

LEAST DIMENSION OF SECTION (INCHES)	MINIMUM TEMPERATURE OF CONCRETE AS PLACED AND MAINTAINED DURING PROTECTION PERIOD, °F	MAXIMUM GRADUAL DECREASE IN SURFACE TEMPERATURE DURING HOURS AFTER END OF PROTECTION, °F
LESS THAN 12	55	50
12 TO LESS THAN 36	50	40
36 TO LESS THAN 72	45	30
GREATER THAN 72	40	20
19. THE INDEPENDENT TESTING LABORATORY SHALL BE ON SITE FOR THE CONCRETE PLACEMENT. THE TESTING LABORATORY SHALL FABRICATE 4 CYLINDERS FOR THE CONCRETE PLACEMENT. MIXES WITH FLY ASH OR SLAG REQUIRE 6 CYLINDERS. BREAK CYLINDERS AT THE FOLLOWING INTERVALS:
1 AT 3 DAYS
1 AT 7 DAYS
1 AT 28 DAYS
1 AT 56 DAYS (REQUIRED IF 28 DAY BREAKS ARE LOW)

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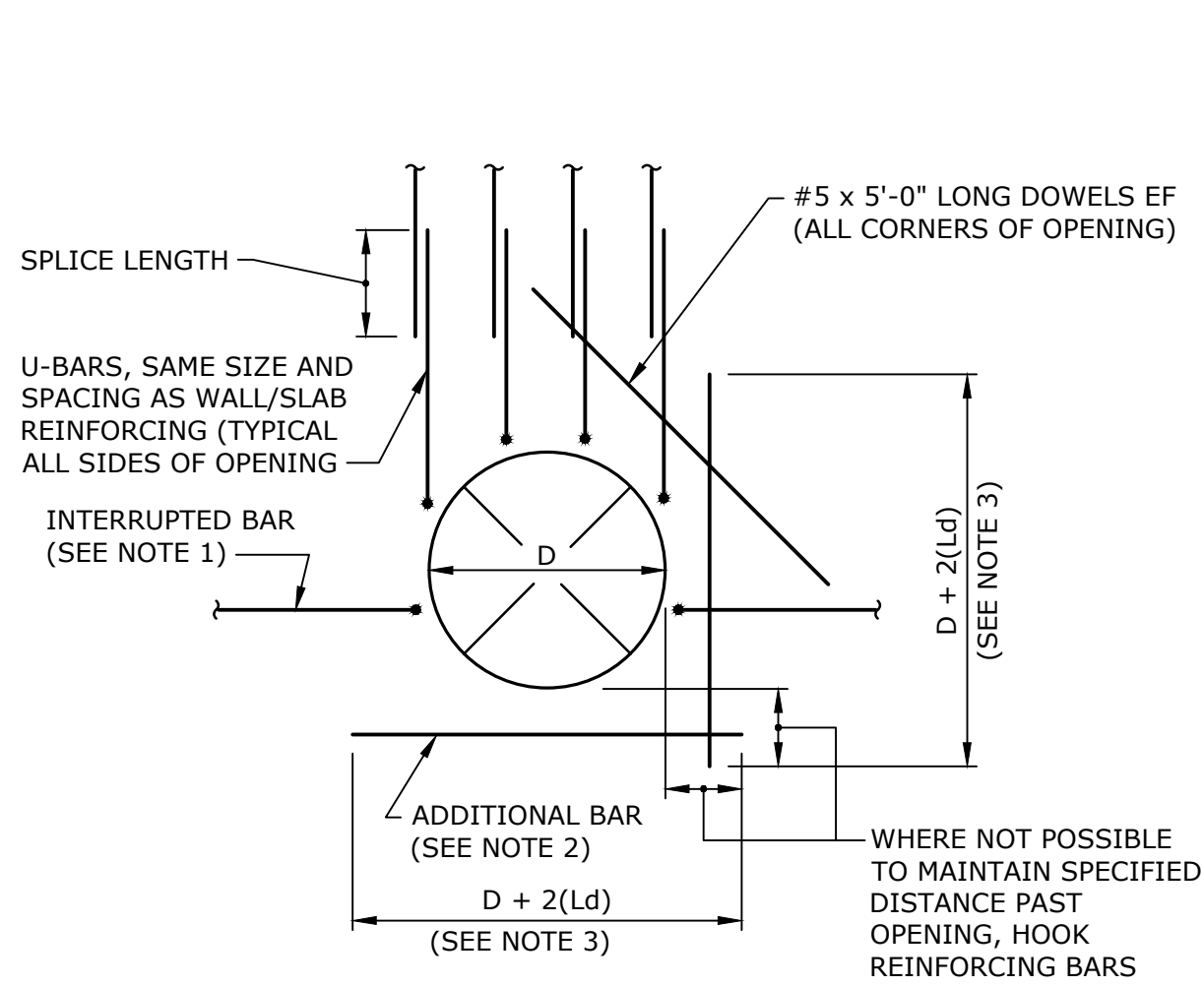
Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-S-001.dwg
DRAWN BY:	TMP
DESIGNED/CHECKED BY:	JJC, BSM
APPROVED BY:	MM, BSM

STRUCTURAL NOTES
AND DETAILS

SCALE: NO SCALE

S-001



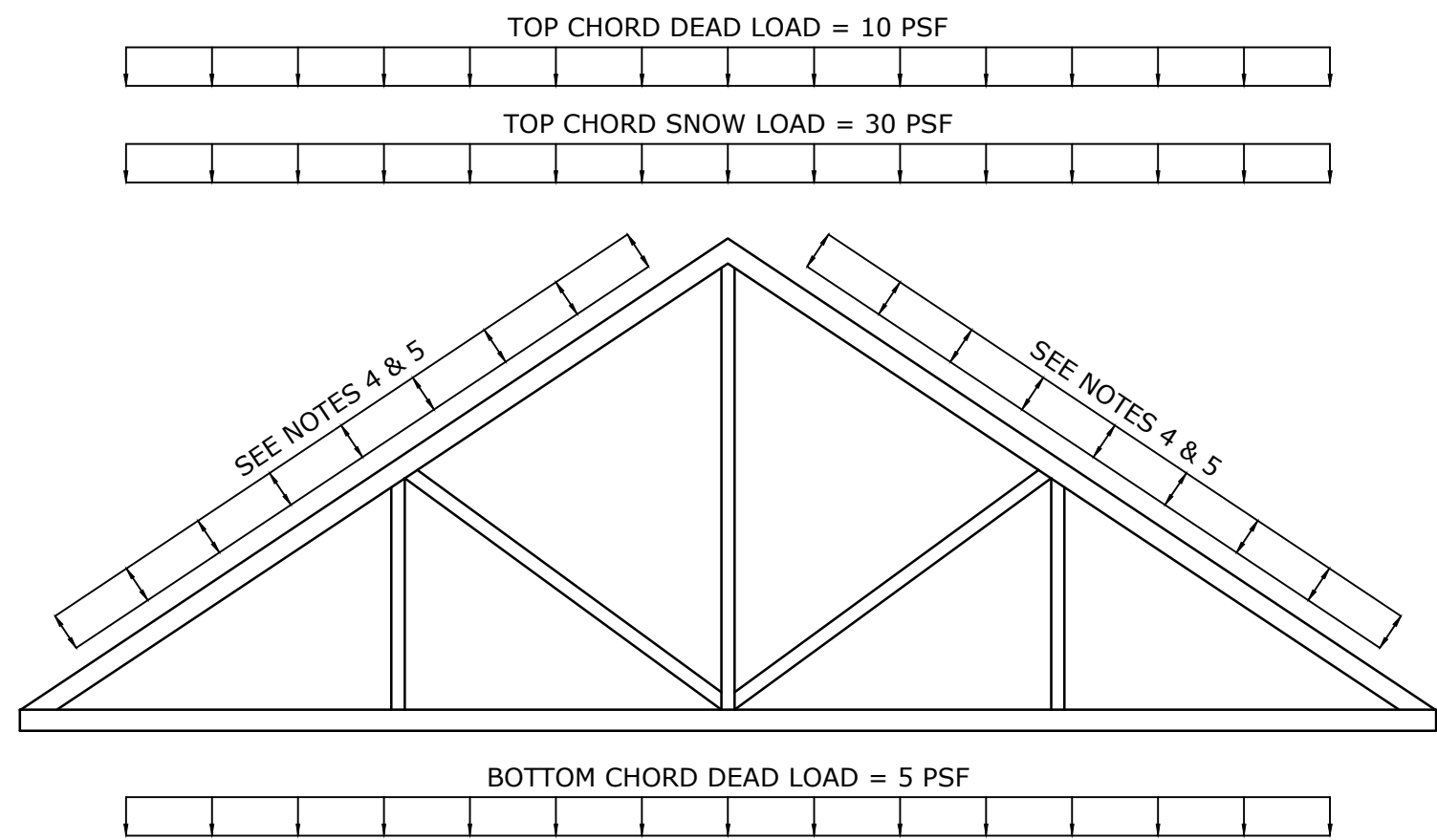
- NOTES:
- FOR SLAB OR WALL APPLICATION WITH A CONCRETE THICKNESS LESS THAN 12 INCHES, 180° OR 90°, HOOK BARS MAY BE USED IN LIEU OF "U-BARS".
 - PROVIDE ADDITIONAL BARS NOT LESS THAN ONE HALF (1/2) OF INTERRUPTED BARS AT EACH SIDE OF OPENING AT 3" ON CENTER.
 - FOR TOP BARS IN SLAB, INCREASE DEVELOPMENT LENGTH BY 30%.

TYPICAL REINFORCING AT OPENINGS IN CONCRETE WALLS AND SLABS
NO SCALE

BAR SIZE DESIGNATION	DEVELOPMENT LENGTH (INCHES)	SPlice LENGTH (INCHES)	
		CLASS B	CLASS B TOP BARS
#3	15	19	25
#4	19	25	33
#5	24	31	40
#6	29	37	48
#7	42	54	70

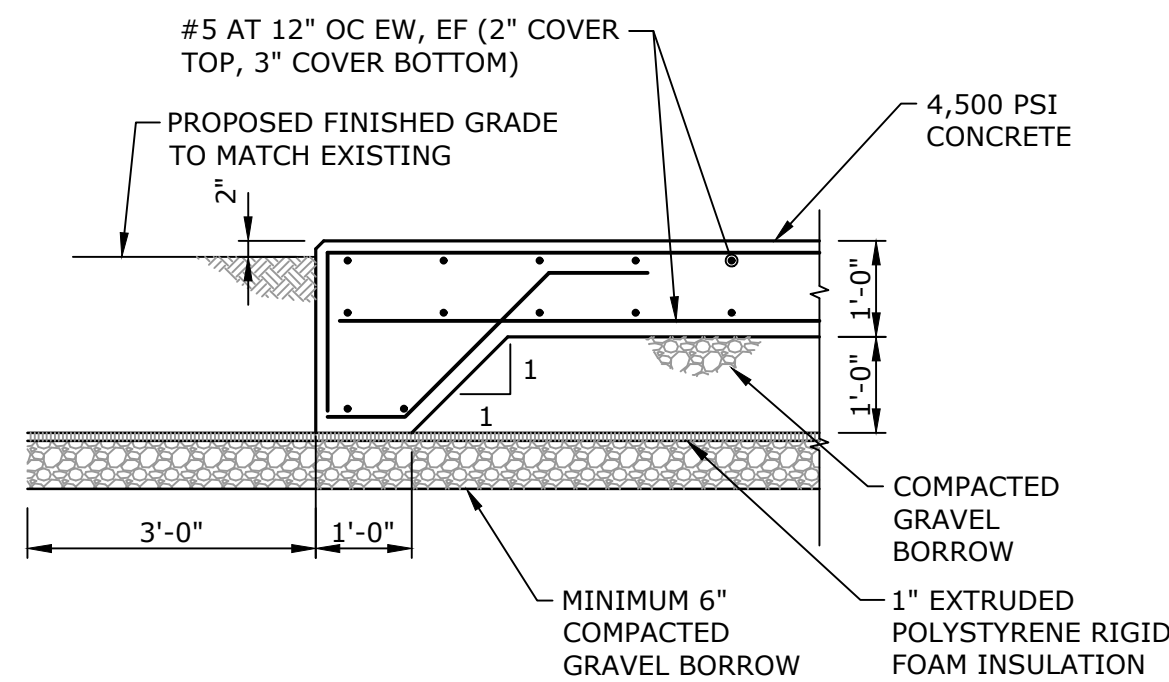
REBAR SPLICE LENGTH SCHEDULE

- NOTES:
- IF CLEAR SPACING BETWEEN THE REBARS IS LESS THAN THREE BAR DIAMETERS, OR IF COVER IS LESS THAN TWO BAR DIAMETERS, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
 - IF EPOXY COATED REBAR IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 50%.
 - IF LIGHTWEIGHT CONCRETE IS USED, INCREASE THE SPLICE LENGTH BY AN ADDITIONAL 30%.
 - THE MINIMUM REBAR SPLICE LENGTH SCHEDULE IS BASED ON F'c= 4,000 PSI AND Fy= 60,000 PSI. ADJUST FOR OTHER STRENGTHS USING ACI-318.
 - FOR HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW, INCREASE THE DEVELOPMENT LENGTH BY AN ADDITIONAL 30%.
 - WHEN BARS OF DIFFERENT SIZE ARE LAP SPICED, THE SPLICE LENGTH SHALL BE THE LARGER OF EITHER THE DEVELOPMENT LENGTH OF THE LARGER BAR OR THE SPLICE LENGTH OF THE SMALLER BAR.

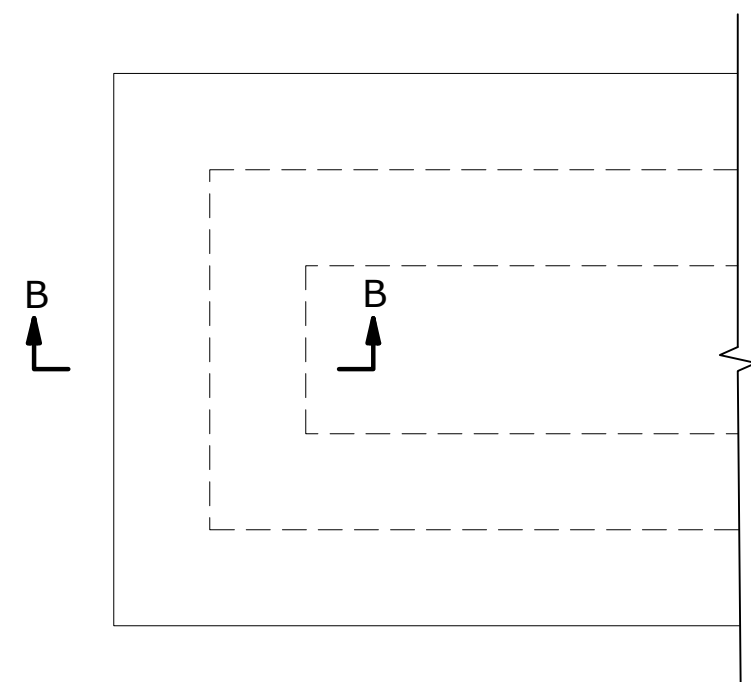


- NOTES:
- THE WOOD TRUSS CONSTRUCTION, INCLUDING CONNECTIONS AND BRACING, SHALL BE BY THE WOOD TRUSS CONTRACTOR.
 - REFER TO DRAWING S-102 FOR ADDITIONAL NOTES AND DESIGN REQUIREMENTS.
 - DESIGN LOADINGS SHALL BE AS INDICATED ABOVE OR AS PER THE CURRENT EDITION OF THE CONNECTICUT STATE BUILDING CODE, WHICHEVER IS MORE STRINGENT.
 - IN ADDITION TO ABOVE LOADS, TRUSSES SHALL BE DESIGNED FOR UNBALANCED SNOW LOAD AND WIND PRESSURES PER THE CURRENT EDITION OF THE CONNECTICUT STATE BUILDING CODE.
 - TRUSS LOADS SHOWN ABOVE ARE IN ADDITION TO THE TRUSS SELF WEIGHT.

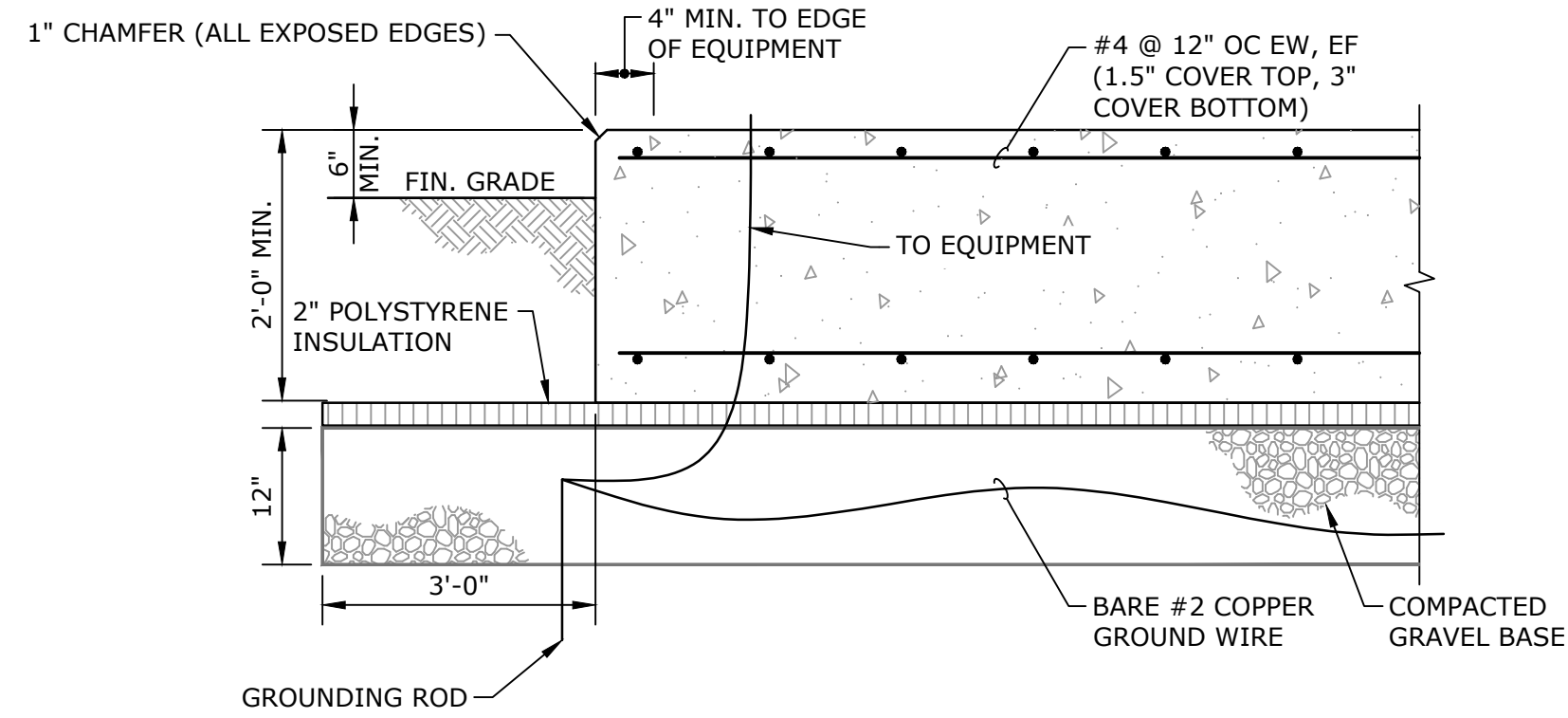
TYPICAL LOADING FOR ROOF TRUSSES
NO SCALE



SECTION B-B



FUEL TANK PAD PLAN
NO SCALE



EQUIPMENT SLAB DETAIL
NO SCALE

- NOTES:
- CONTRACTOR TO COORDINATE FINAL SIZE OF CONCRETE PAD WITH EQUIPMENT MANUFACTURER.
 - SEE SHEET C-102 FOR LOCATION OF EQUIPMENT PAD.
 - SEE E-SHEETS FOR EQUIPMENT INFORMATION.

STRUCTURAL DESIGN LOADS

- L1 RISK CATEGORY OF BUILDING
A. PUMP STATION _____ RISK CATEGORY III
- L2 APPLICABLE CODES
A. 2022 STATE BUILDING CODE OF CONNECTICUT (IBC 2021) WITH CONNECTICUT SUPPLEMENT
B. MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES ASCE 7-16
C. INTERNATIONAL ENERGY CONSERVATION CODE IECC 2021
- L3 DEAD LOADS
A. WEIGHT OF BUILDING COMPONENTS AND EQUIPMENT _____ 60,000 LBS
- L4 COLLATERAL LOADS
A. MECHANICAL DEAD LOAD _____ 10 PSF
- L5 SNOW LOADS
A. GROUND SNOW LOAD (Pg) _____ 30 PSF
B. IMPORTANCE FACTOR _____ I_s = 1.10
C. SLOPED ROOF SNOW LOAD(Ps) (MINIMUM) _____ 30 PSF (PER ASCE7-16 7.3-1)
D. EXPOSURE FACTOR (I_s) _____ 0.90
E. THERMAL FACTOR (Ce) _____ 1.10
F. UNBALANCED ROOF SNOW LOAD _____ PER ASCE 7-16 7.7, 7.8
- L6 LIVE LOADS
A. GROUND FLOOR (PRECAST BUILDING SLAB) _____ 150 PSF
B. BUILDING ROOF _____ 20 PSF
- L7 WIND LOADS (ASCE 7-16)
A. BASIC WIND SPEED V_{ULT} _____ 130 MPH
B. WIND EXPOSURE _____ EXPOSURE B
C. INTERNAL PRESSURE COEFFICIENT _____ GCp_i = ±0.18
D. HURRICANE PRONE REGION _____ YES
- L8 SEISMIC LOADS (ASCE 7-16)
A. SITE CLASS _____ D
B. 0.2 SECOND MAPPED SPECTRAL RESPONSE ACCELERATION (S_s) _____ 0.186
C. 1.0 SECOND MAPPED SPECTRAL RESPONSE ACCELERATION (S₁) _____ 0.055
D. DESIGN SPECTRAL RESPONSE ACCELERATION - SHORT PERIOD (S_{DS}) _____ 0.189
E. DESIGN SPECTRAL RESPONSE ACCELERATION - LONG PERIOD (S₀₁) _____ 0.102
F. SEISMIC OCCUPANCY IMPORTANCE FACTOR (I_e) _____ 1.25
G. SEISMIC DESIGN CATEGORY _____ B

GENERAL SYMBOLS

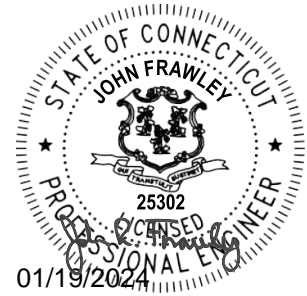


SECTION

SECTION REFERENCE LETTER
DRAWING WHERE SECTION IS
SHOWN OR TAKEN

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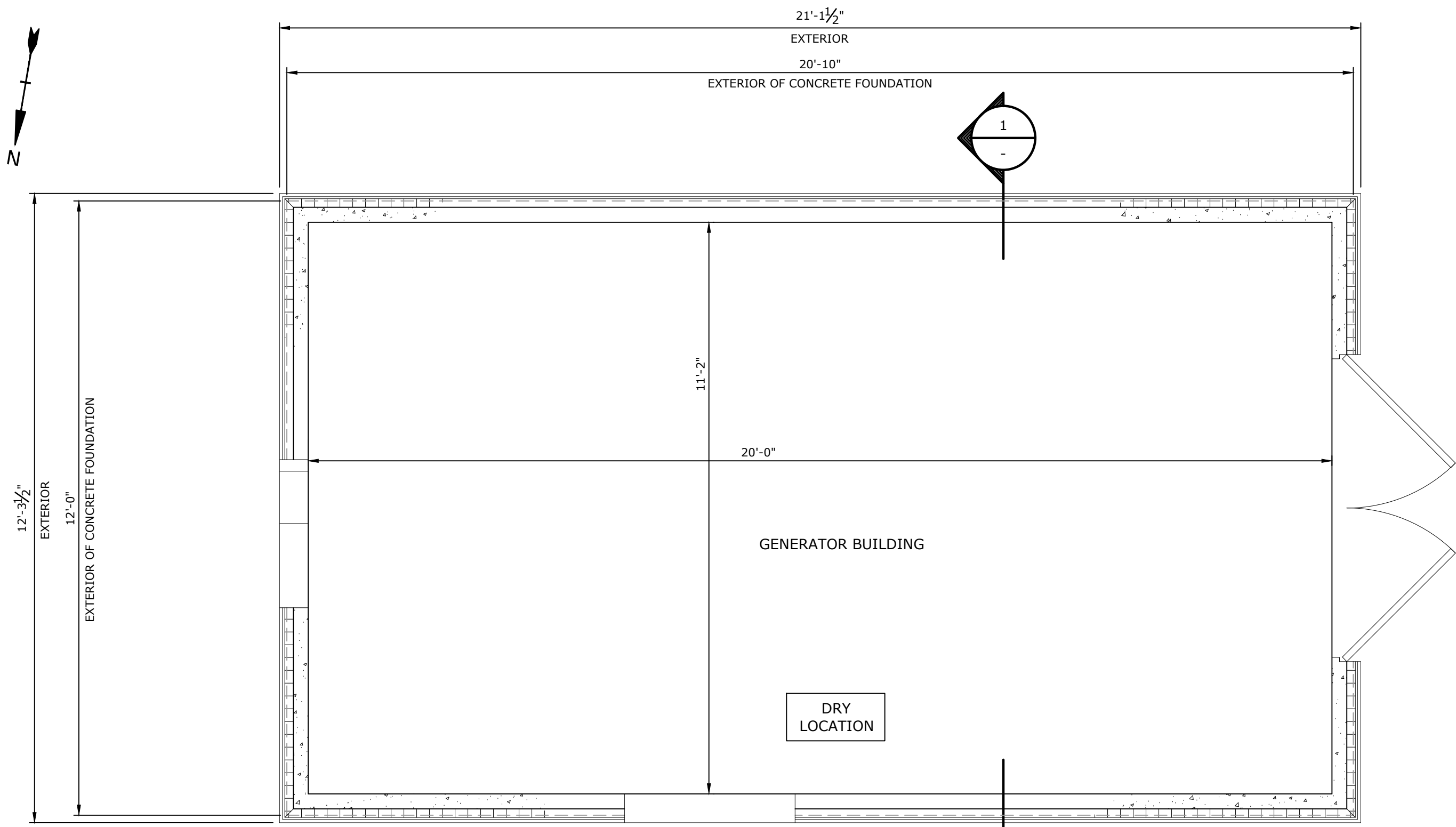
Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-S-002.dwg
DRAWN BY:	TMP
DESIGNED/CHECKED BY:	JF
APPROVED BY:	MM

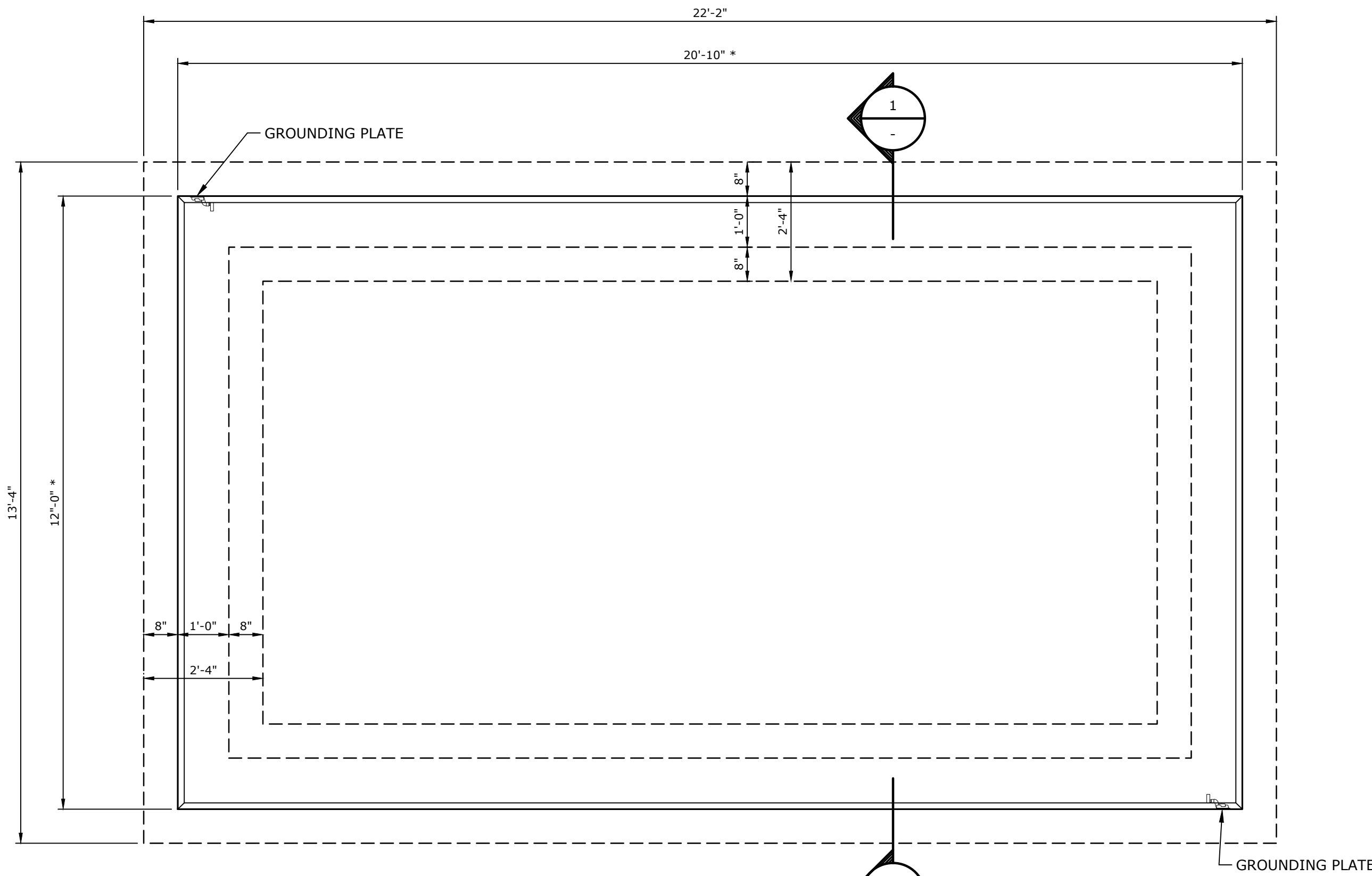
**STRUCTURAL DESIGN
LOADS AND DETAILS**

SCALE: AS SHOWN

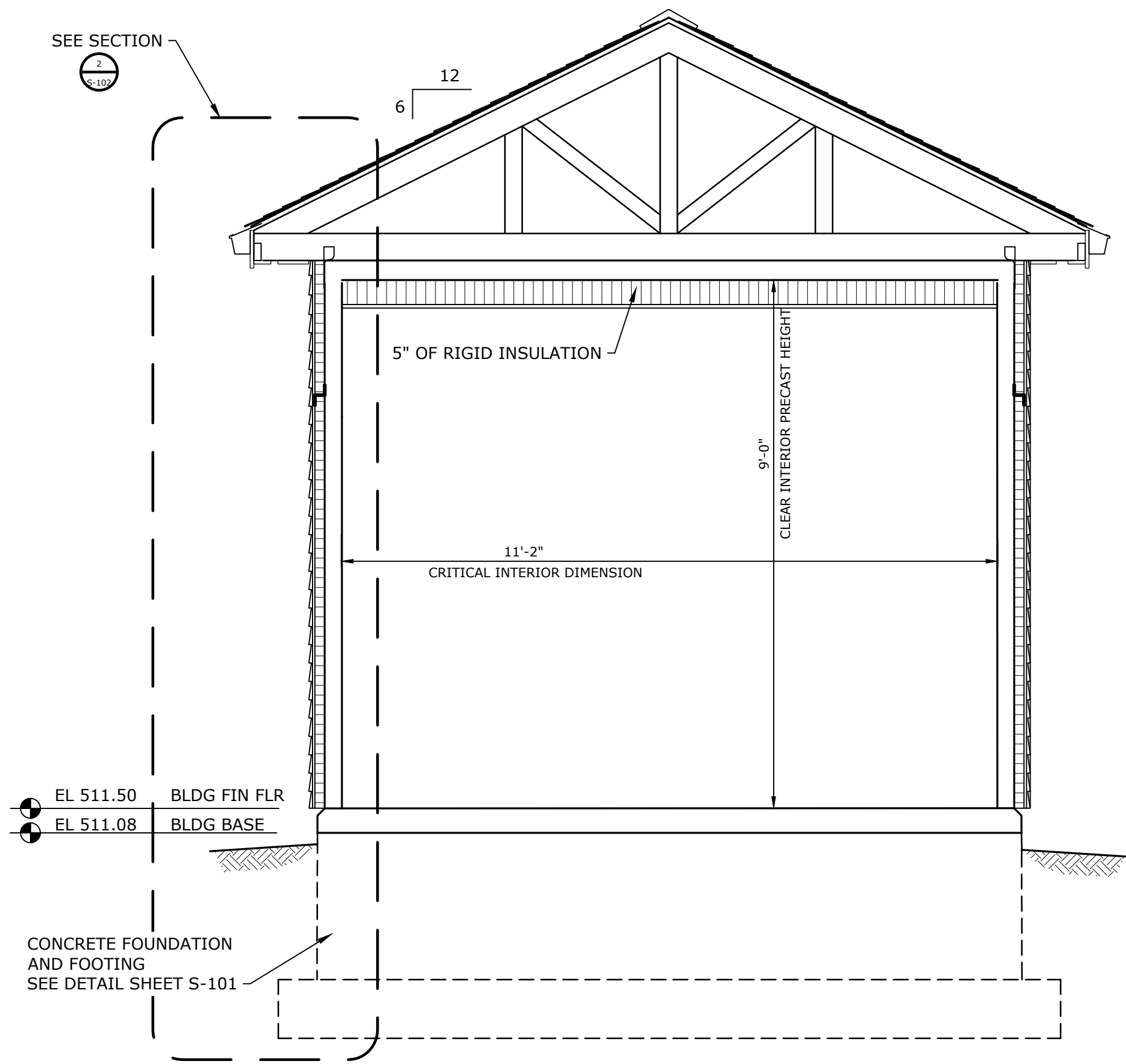
S-002



FLOOR PLAN
1/2"=1'-0"



FOUNDATION PLAN
1/2"=1'-0"

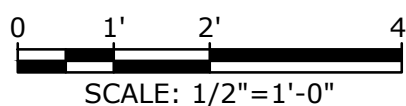


SECTION

1/2"=1'-0"

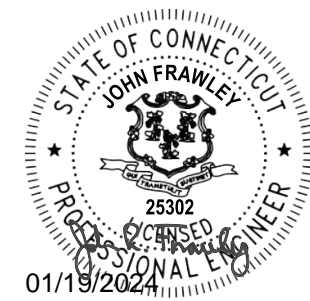
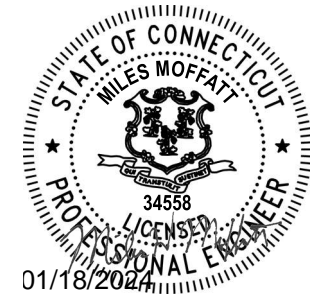
NOTE:

TRUSS FRAMING MEMBERS SHOWN IN THIS SECTION ARE NOTIONAL ONLY.
ACTUAL FRAMING DETAILS TO BE DETERMINED BY MANUFACTURER.



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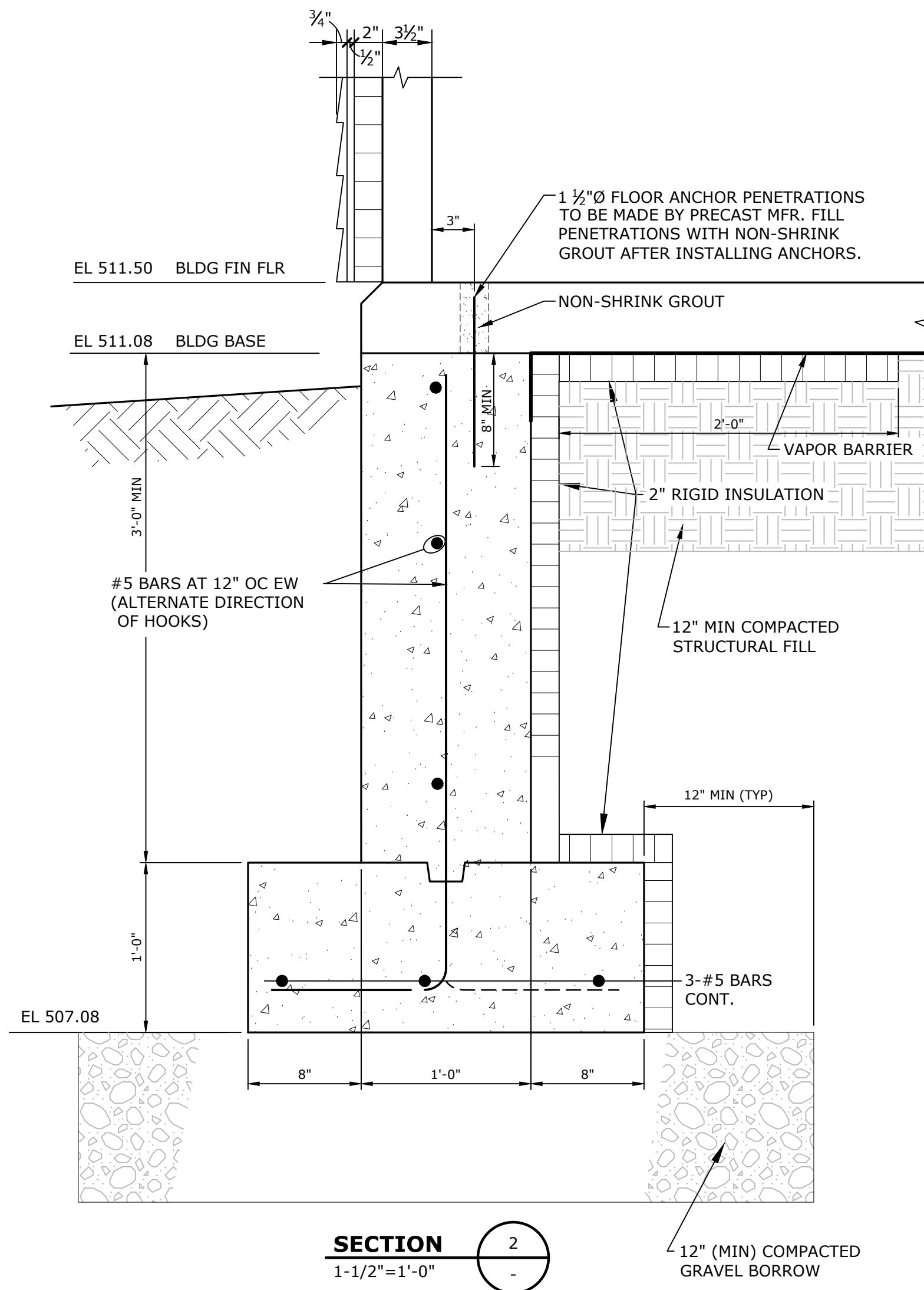
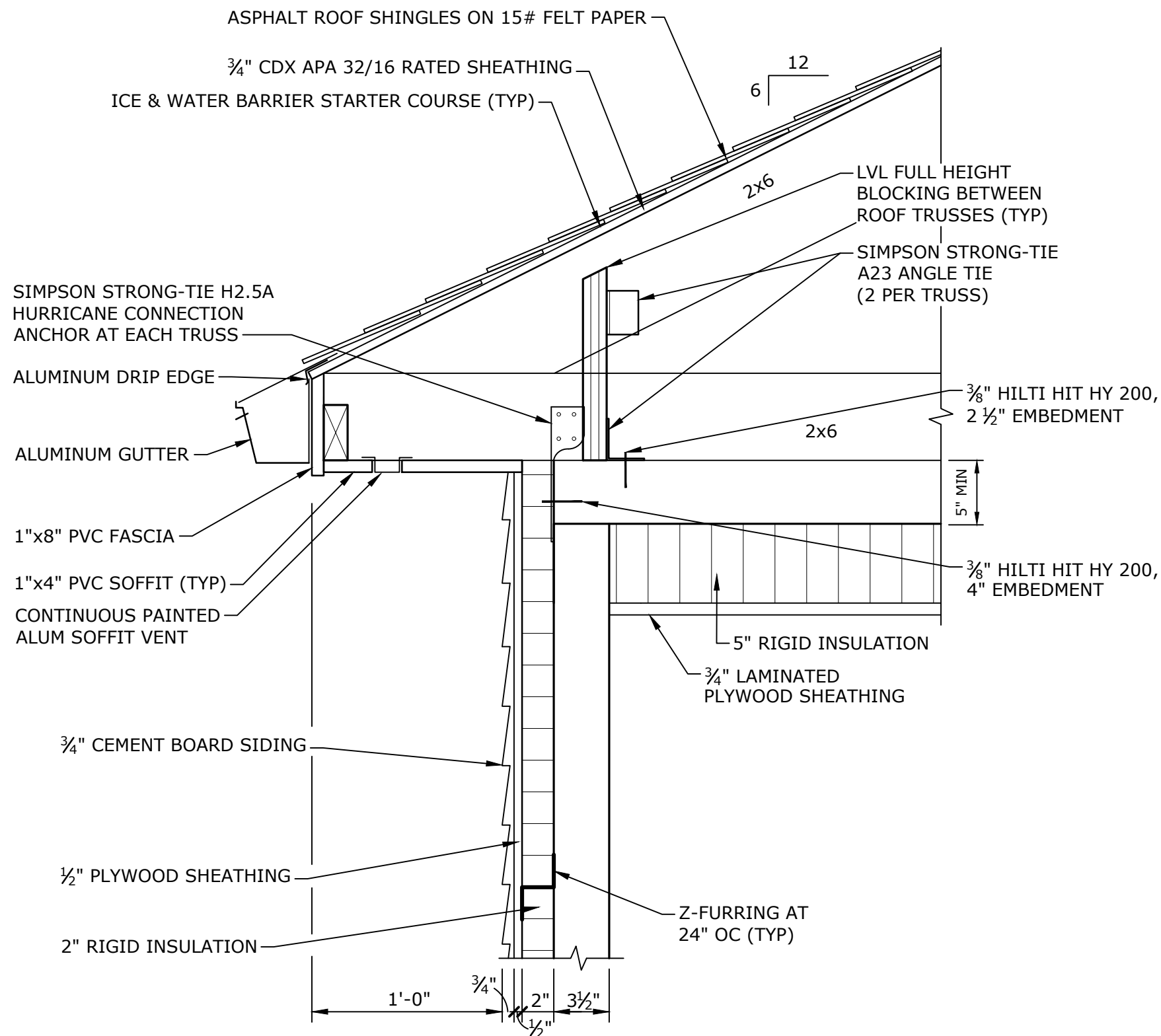
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DATE:	JANUARY 2024
FILE:	V0037-017-S-101.dwg
DRAWN BY:	TMP
DESIGNED/CHECKED BY:	JF
APPROVED BY:	MM, BSM

**BUILDING FLOOR PLAN
AND FOUNDATION PLAN**

SCALE: AS SHOWN

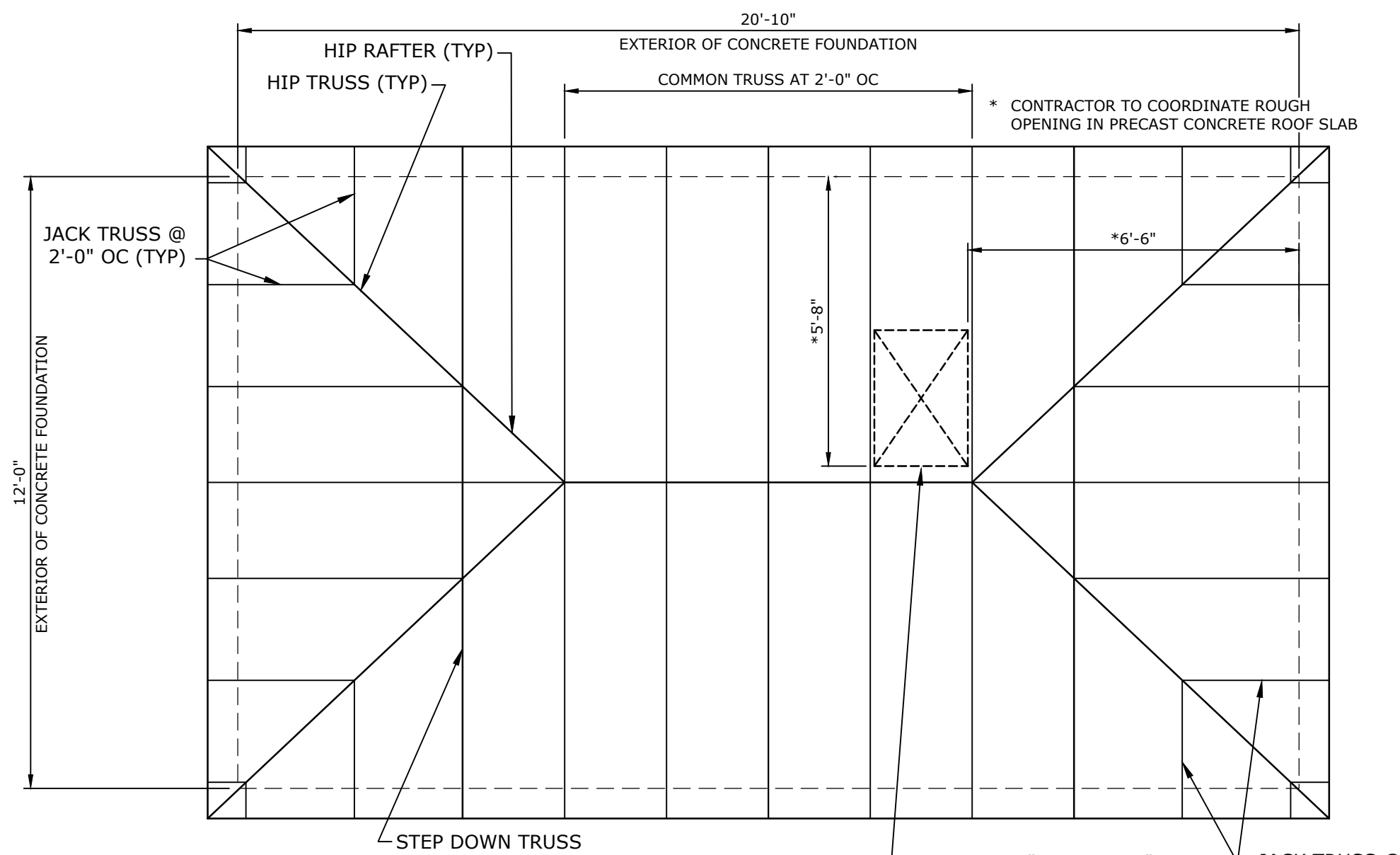
S-101

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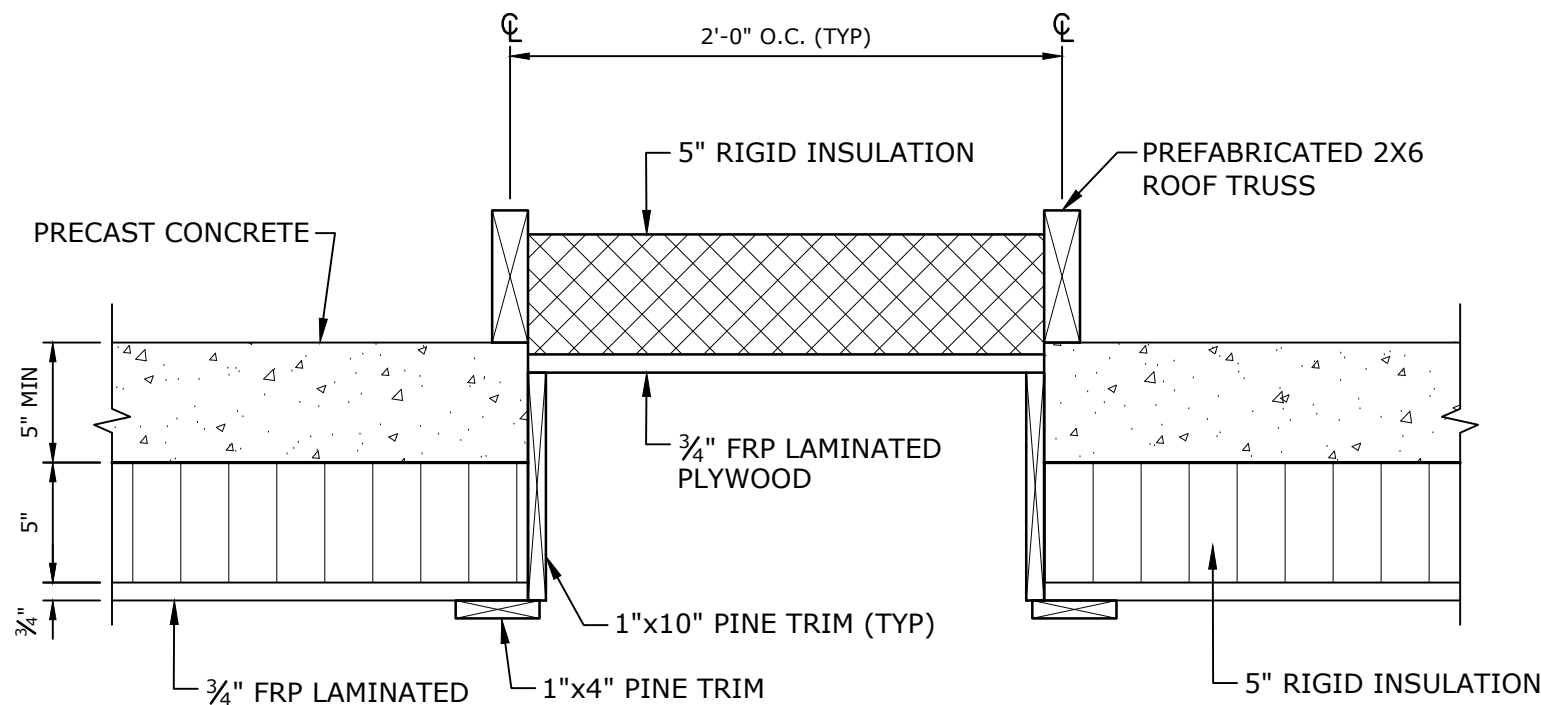
SECTION
1-1/2"=1'-0"

2
-



ROOF FRAMING PLAN
SCALE: 3/8"=1'-0"

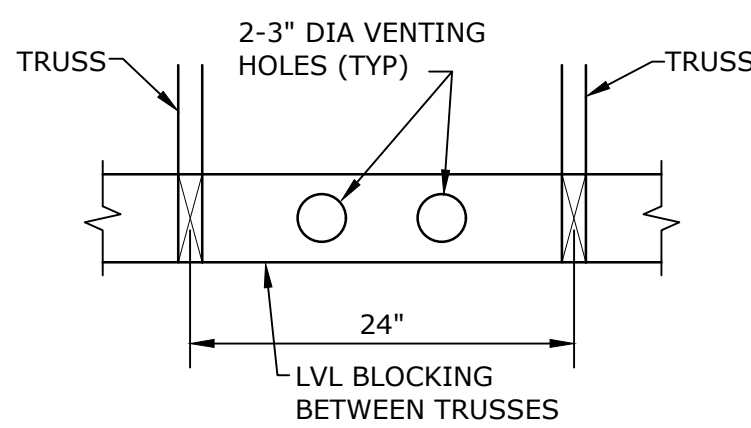
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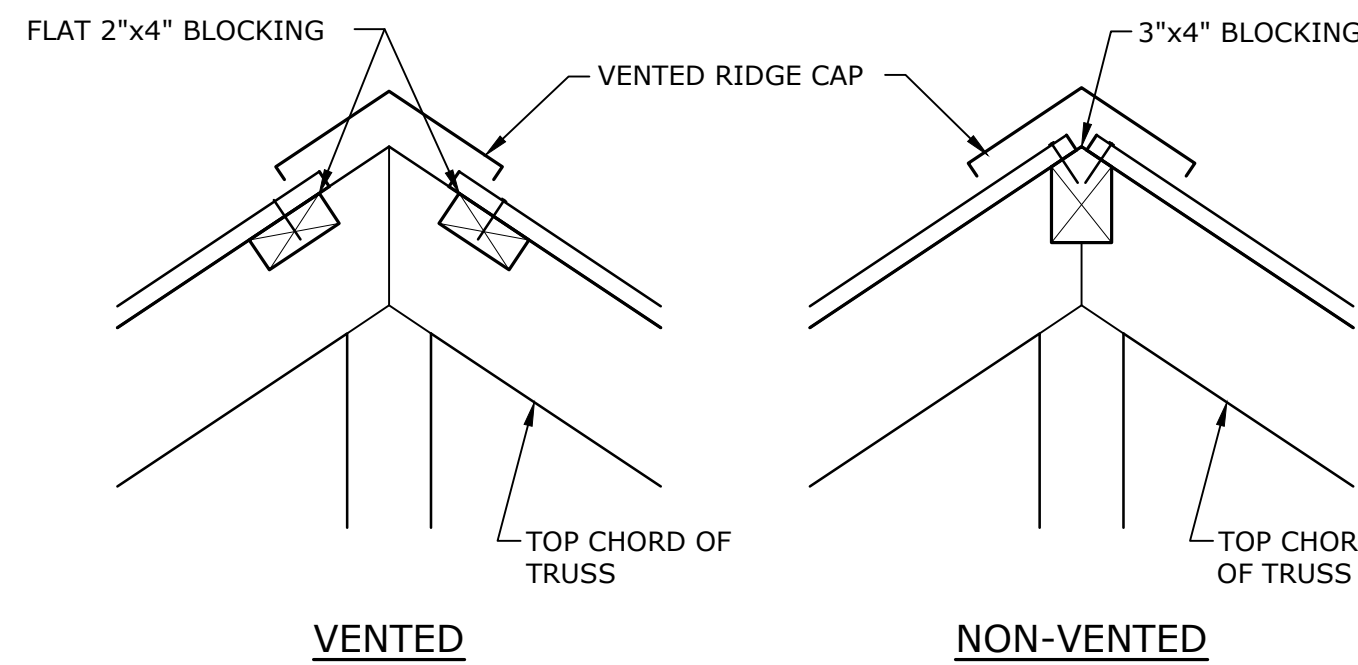
ATTIC ACCESS HATCH

DETAIL
NO SCALE

1
-



LVL EAVE BLOCKING BETWEEN TRUSSES
1"=1'-0"



**BLOCKING AT
ALTERNATE TRUSS BAYS**
1 1/2"=1'-0"

0 0.5' 1' 2'
SCALE: 1"=1'-0"

0 2' 4' 6'
SCALE: 3/8"=1'-0"

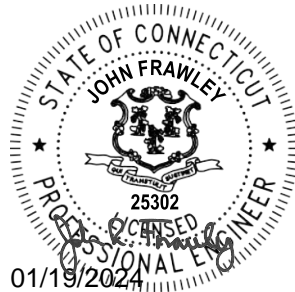
0 0.5' 1' 1.5'
SCALE: 1 1/2"=1'-0"

ROOF FRAMING

1. INSTALL $\frac{3}{8}$ " ROOF SHEATHING PERPENDICULAR TO ROOF RAFTERS
2. PROVIDE STAGGERED JOINTS IN SHEATHING, PARALLEL TO ROOF RAFTER FRAMING
3. FASTEN ROOF SHEATHING TO ROOF RAFTER FRAMING USING 8d NAILS SPACED AT 4" ON CENTER (MAXIMUM) AT SUPPORTED EDGES
4. SPACE NAILS AT 6" ON CENTER ALONG INTERMEDIATE FRAMING MEMBERS
5. PROVIDE CONTINUOUS RAFTER BLOCKING AT ALL PLYWOOD JOINTS
6. PROVIDE MISCELLANEOUS FRAMING CLIPS TO SUIT APPLICATION AND AS INDICATED. MANUFACTURED BU SIMPSON STRONG-TIE OR EQUAL.
7. HURRICANE TIES SHALL BE TYPE H3 OR H4 AS MANUFACTURED BY S.S.T.
8. MISCELLANEOUS CLIP ANGLES SHALL BE TYPE A23 AS MANUFACTURED BY S.S.T.
9. RAFTER HANGERS SHALL BE PROVIDED TO SUIT APPLICATION AND AS INDICATED ON DRAWINGS. MANUFACTURED BY S.S.T OR EQUAL.

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DATE: JANUARY 2024
FILE: V0037-017-S-101.dwg
DRAWN BY: TMP
DESIGNED/CHECKED BY: JF
APPROVED BY: MM, BSM

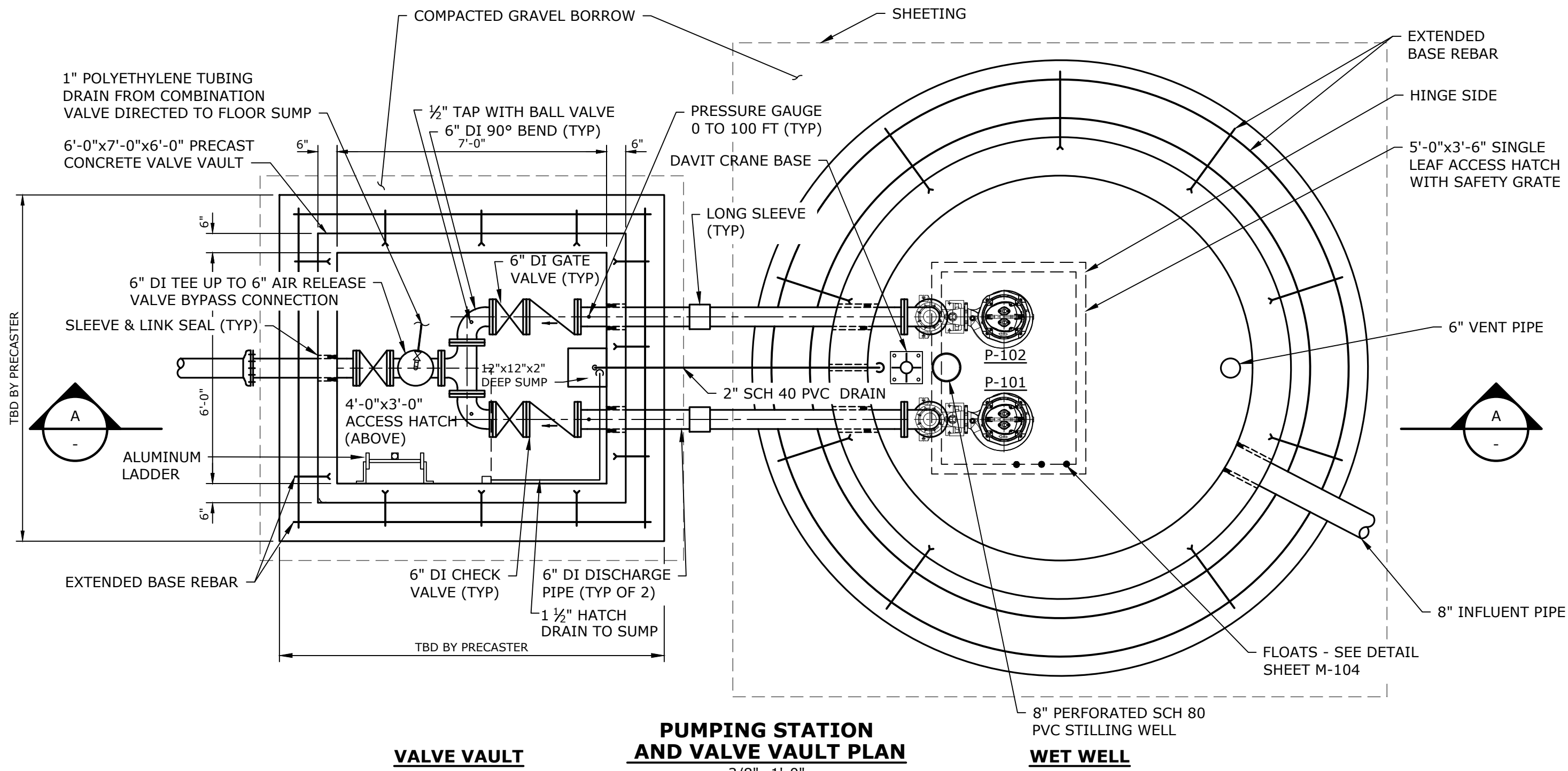
**PREFABRICATED BUILDING
AND FOUNDATION DETAILS**

SCALE: AS SHOWN

S-102

NOTES:

- ALL PIPE PENETRATIONS IN VALVE VAULT SHALL HAVE PIPE SLEEVES AND LINK SEALS.
- ALL EXPOSED PIPING IN WET WELL AND VALVE VAULT SHALL BE PAINTED IN ACCORDANCE WITH SECTION 09900.
- ALL INLET & OUTLET CONNECTIONS IN WET WELL SHALL BE CORED AND FITTED WITH LINK SEALS.
- INTERIOR OF WET WELL TO BE COATED IN ACCORDANCE WITH SECTION 09900.
- PROVIDE SHEETING AND DEWATERING AS NECESSARY FOR INSTALLMENT OF WET WELL.
- PIPE SUPPORTS ARE NOT SHOWN. NUMBER AND LOCATION OF PIPE SUPPORTS TO BE DESIGNED BY CONTRACTOR PER THE REQUIREMENTS OF SPECIFICATION SECTION 15060.
- PRECAST STRUCTURE REBAR SPACING IS SHOWN FOR EXAMPLE ONLY AND SHALL BE THE RESPONSIBILITY OF THE PRECAST STRUCTURE SUPPLIER.

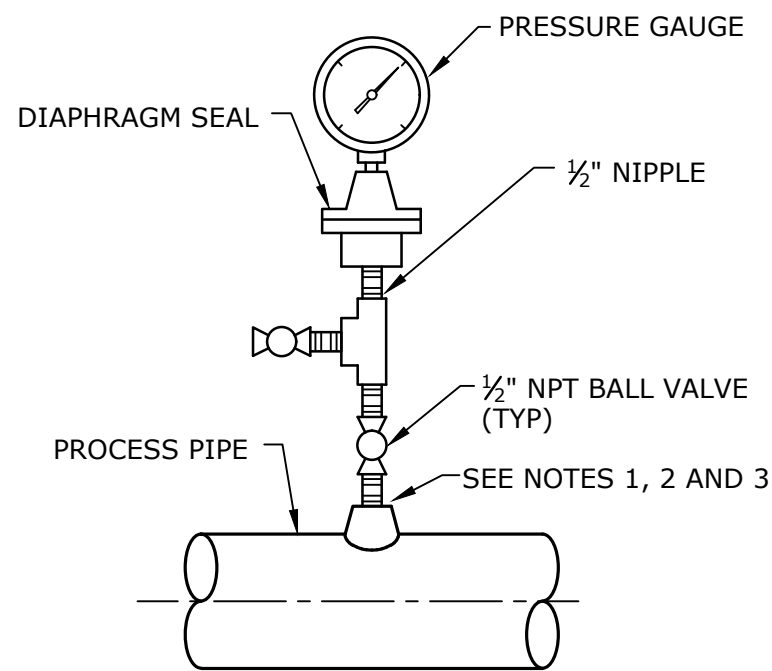


VALVE VAULT

PUMPING STATION
AND VALVE VAULT PLAN

WET WELL

3/8"=1'-0"



PRESSURE GAUGE AND DIAPHRAGM
NO SCALE

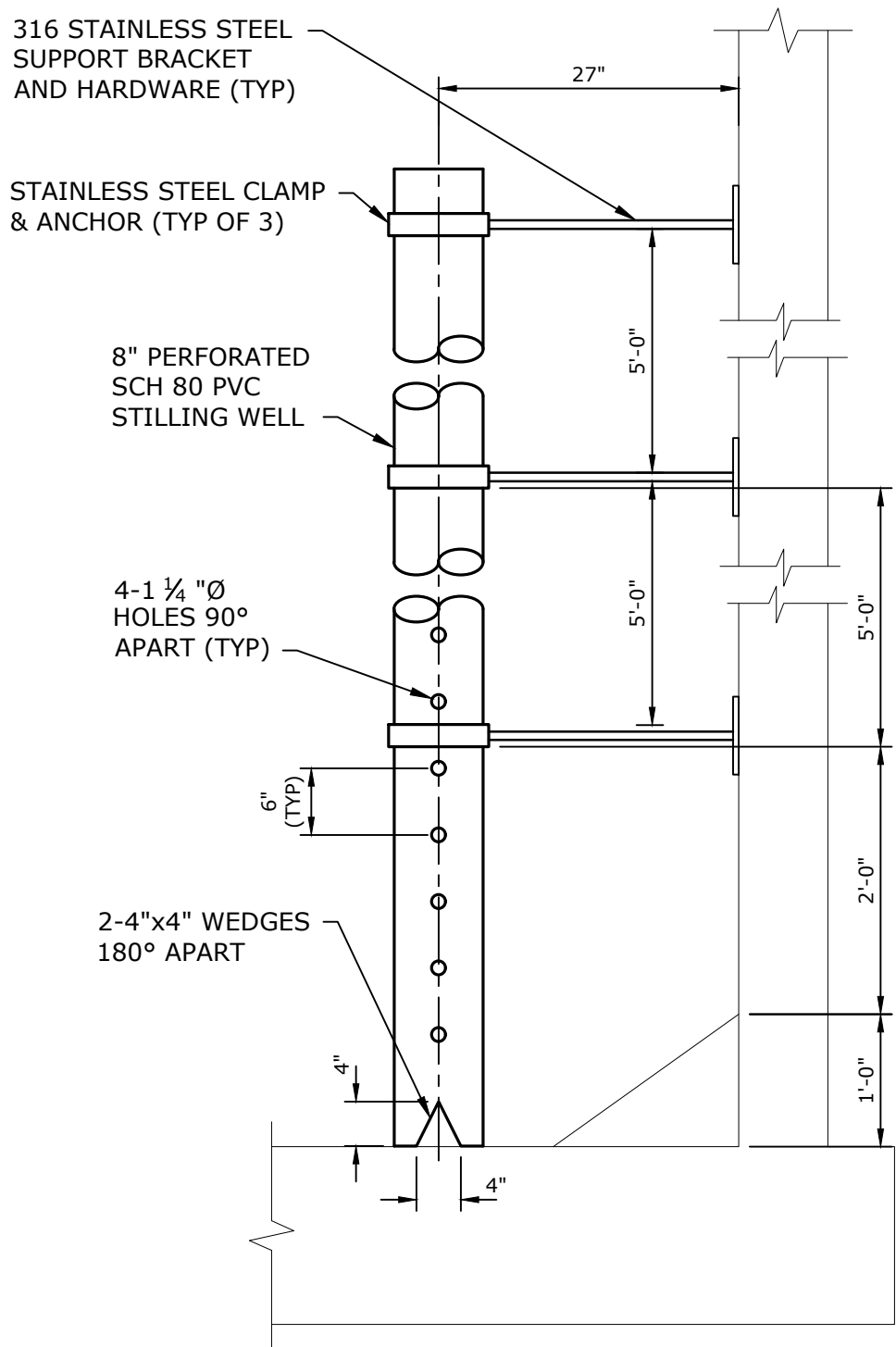
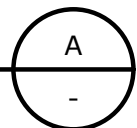
NOTES:

- FOR STEEL, GALVANIZED STEEL, AND PVC 2" AND SMALLER, USE A BUSHING IN A TEE.
- FOR DUCTILE IRON AND FIBERGLASS REINFORCED PLASTIC PIPE, ALL SIZES, USE A PIPE SADDLE AND BUSHING.
- FOR STEEL AND STAINLESS STEEL PIPES 3" AND LARGER, USE THRED-O-LET AS SHOWN.
- ALL PIPE FITTINGS TO BE BRASS.

KEY PUMP STATION ELEVATIONS	ELEVATION
FORCE MAIN INVERT	505.50'
HIGH HIGH WATER ALARM SWITCH TO FLOATS	496.18'
GRAVITY SEWER INVERT	496.24'
LAG PUMP ON HIGH WATER ALARM	496.03'
LEAD PUMP ON	495.53'
PUMP OFF	491.43'
LOW WATER ALARM	491.33'

SECTION

3/8"=1'-0"

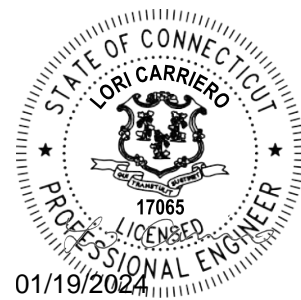


STILLING WELL DETAIL

3/4"=1'-0"

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Vernon, CT

PROJECT NO: V0037-017
DATE: JANUARY 2024
FILE: V0037-017-M-101.dwg
DRAWN BY: TMP
DESIGNED/CHECKED BY: LAC
APPROVED BY: MM

MECHANICAL PLAN AND SECTION

SCALE: AS SHOWN

M-101

Last Saved: 1/16/2024 11:16:24 AM
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Page & Count: 21 / V0037-017 - Exit 67 Sewer Extension Design Drawings AutoCAD Sheet V0037-017-H-001.dwg

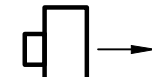
GENERAL SYMBOLS

- BOLD LINES AND TEXT INDICATE PROPOSED WORK
———— LIGHT LINES AND TEXT INDICATE APPROXIMATE EXISTING CONDITIONS

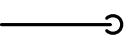


CONTROL SYSTEMS

- HVAC** HVAC CONTROL PANEL
TH THERMOSTAT
TC SPLIT SYSTEM/VRF TEMPERATURE CONTROLLER
T TEMPERATURE SENSOR (DDC SYSTEM SENSOR)

AIR SYSTEMS

- M** MOTORIZED CONTROL DAMPER
→ SUPPLY AIRFLOW
→ EXHAUST AIRFLOW
 ELECTRIC UNIT HEATER

PIPING SYSTEMS

- RL —— REFRIGERANT LIQUID
----- RG ----- REFRIGERANT GAS
----- C ----- COOLING COIL CONDENSATE
 ELBOW TURNED DOWN
 CHECK VALVE
 REDUCER

GENERAL NOTES

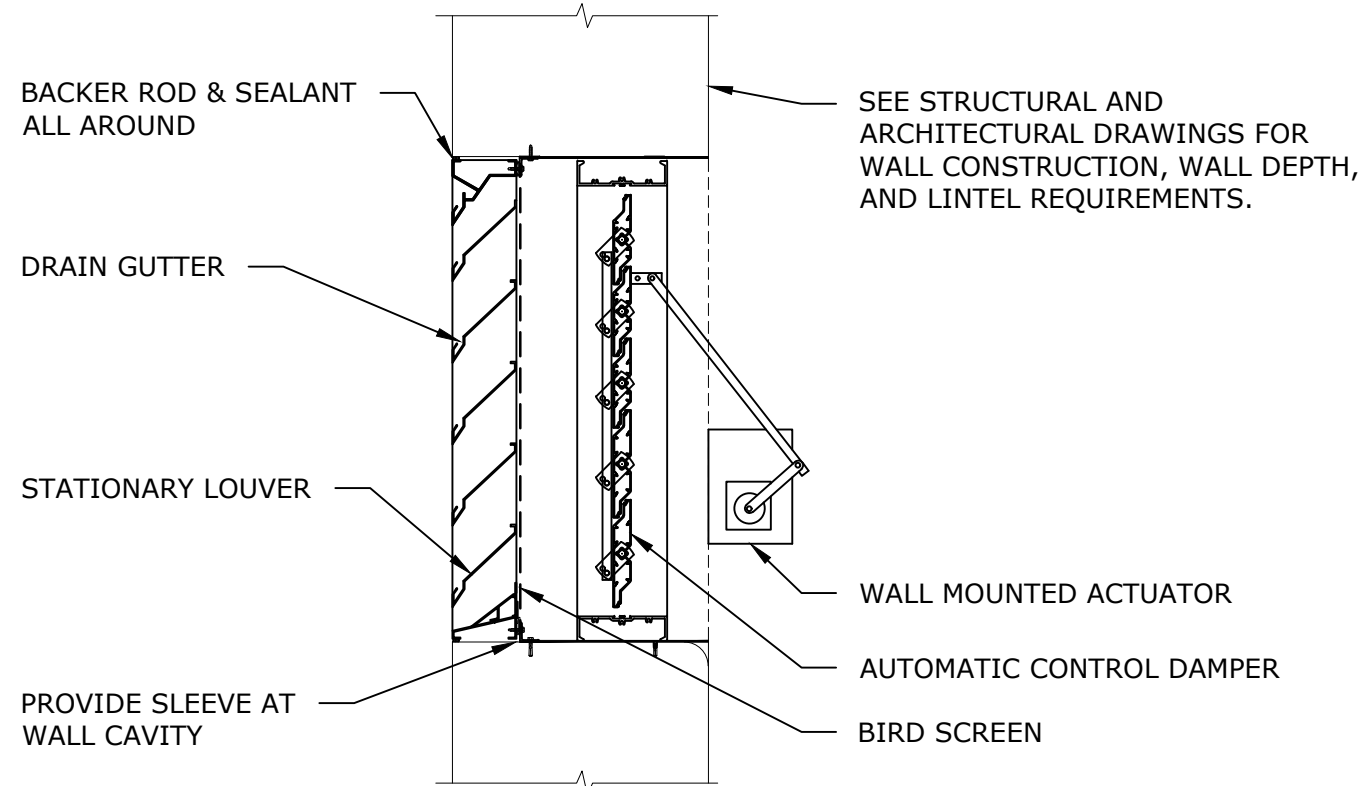
- PROVIDE ALL REQUIRED MATERIALS, LABOR, EQUIPMENT, AND SERVICES NECESSARY FOR THE INSTALLATION OF THE WORK AS SHOWN ON THESE DRAWINGS OR AS INDICATED IN THE PROJECT SPECIFICATIONS.
- ALL MATERIALS, METHODS AND EQUIPMENT INSTALLED MUST BE IN COMPLIANCE WITH PROJECT SPECIFICATIONS AND APPLICABLE CODES.
- THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT.
- COORDINATE LOCATIONS OF EQUIPMENT AND SYSTEMS WITH OTHER TRADES BEFORE AND DURING CONSTRUCTION. ANY MODIFICATIONS REQUIRED THAT RESULTED FROM A LACK OF COORDINATION SHALL BE PERFORMED AT NO ADDITIONAL COST.
- HVAC DRAWINGS DO NOT SHOW ALL CONDITIONS AND SYSTEMS OF THE BUILDING. CONTRACTOR SHALL USE ALL DRAWINGS AND SPECIFICATIONS OF CONTRACT DOCUMENTS FOR COORDINATION AND SHALL VERIFY FIELD CONDITIONS.
- INSTALL ALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS INCLUDING LISTED SERVICE CLEARANCE SPACE.
- COORDINATE ALL REQUIRED OPENINGS THROUGH WALLS WITH GENERAL CONTRACTOR AND OTHER TRADES.
- INSTALL REFRIGERANT PIPING PASSING THROUGH WALLS IN A SLEEVE. SEAL PENETRATION WITH NON-SHRINK GROUT AND INSULATE PIPE WITHIN SLEEVE. PROVIDE WALL ESCUTCHEONS FOR EXPOSED PIPING PASSING THROUGH WALLS.
- INSTALL EQUIPMENT AND SUPPORTS IN ACCORDANCE WITH ALL RELEVANT BUILDING CODES. ALL EQUIPMENT SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS. SUPPORT FROM DECKING WILL NOT BE ACCEPTED.
- INSTALL ACCESS DOORS IN DUCTWORK AT MOTORIZED DAMPERS.
- THERMOSTATS AND SWITCHES ARE SHOWN IN GENERAL LOCATIONS. COORDINATE EXACT LOCATION WITH FIELD CONDITIONS.
- INSTALL ALL EXPOSED CONTROL WIRING IN CONDUIT AND IN ACCORDANCE WITH DIVISION 16 REQUIREMENTS.
- CORE THROUGH FULL HEIGHT WALLS AS REQUIRED TO INSTALL PIPING OR CONTROL WIRING.
- CONDUCT A SURVEY WITH A PACHOMETER OR BY SIMILAR MEANS TO IDENTIFY THE LOCATION OF STEEL REINFORCING BARS WHEN CORING A HOLE THROUGH EXISTING CONCRETE SLABS OR WALLS. THE NEW CORE SHALL BE LOCATED TO AVOID CUTTING REINFORCING BARS. WHERE REINFORCING STEEL IS CLOSE ENOUGH TOGETHER THAT IT IS NOT POSSIBLE TO CORE THE REQUIRED HOLE WITHOUT CUTTING THE REINFORCING BARS, CONTACT THE ENGINEER FOR FURTHER DIRECTION BEFORE CUTTING A HOLE. THE SLAB WILL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR WHEN REINFORCING BARS CUT WITHOUT THE CONSENT OF THE ENGINEER.

MEP COORDINATION NOTES

- SPARE 120 VOLT POWER CIRCUIT BREAKER(S) PROVIDED BY DIVISION 16 TO BE USED FOR HVAC CONTROLS. 120 VOLT POWER WIRING TO HVAC CONTROLS PROVIDED BY DIVISION 15. COORDINATE WITH DIVISION 16 CONTRACTOR FOR CIRCUIT BREAKER REQUIREMENTS AND LOCATIONS.
- WIRING AND CONDUIT FOR HVAC CONTROLS SHALL CONFORM TO DIVISION 16 REQUIREMENTS.

ABBREVIATIONS

- | | |
|--------|-------------------------------|
| ACU | AIR CONDITIONING UNIT |
| AFF | ABOVE FINISHED FLOOR |
| AFG | ABOVE FINISHED GRADE |
| AMPS | AMPERE |
| BTU/HR | BRITISH THERMAL UNIT PER HOUR |
| C | CONDENSATE |
| CFM | CUBIC FEET PER MINUTE |
| CU | CONDENSING UNIT |
| D | DEPTH |
| EUH | ELECTRIC UNIT HEATER |
| °F | DEGREES FAHRENHEIT |
| FA | FREE AREA |
| FPM | FEET PER MINUTE |
| FT | FEET |
| GC | GENERAL CONTRACTOR |
| H | HEIGHT |
| HP | HORSE POWER |
| HZ | HERTZ |
| IN | INCH |
| K | KILO (x1000) |
| KW | KILOWATT |
| L | LOUVER |
| LBS | POUNDS |
| LRA | LOCKED ROTOR AMPERE |
| M | MOTORIZED |
| MBH | THOUSAND BTU/HR |
| MCA | MINIMUM CIRCUIT AMPACITY |
| MIN | MINIMUM |
| NO | NUMBER |
| PD | PRESSURE DROP |
| PH | PHASE |
| PVC | POLYVINYLCHLORIDE |
| RG | REFRIGERANT GAS |
| RL | REFRIGERANT LIQUID |
| RLA | RUN LOAD AMPERE |
| SQFT | SQUARE FEET |
| W | WIDTH OR WEIGHT |
| WC | WATER COLUMN |

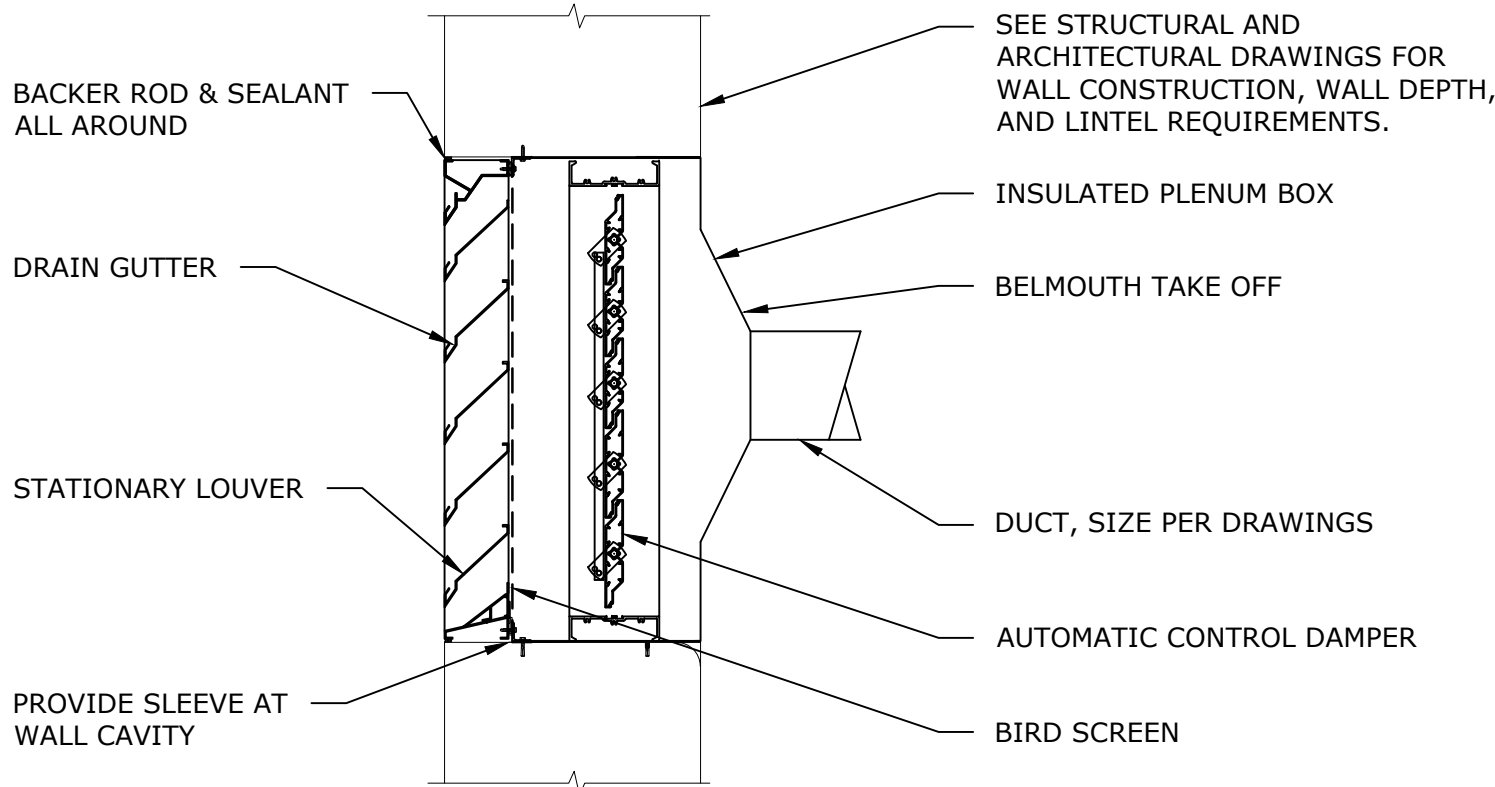


NOTES:

- PROVIDE DUCT SLEEVE IN WALL CAVITY FROM LOUVER TO INTERIOR WALL.
- INSTALL DAMPER WITHIN WALL CAVITY. MOUNT ACTUATOR ON WALL NEXT TO DAMPER. PROVIDE LINKAGES, BEARING BRACKETS, CRANK ARM AND OTHER PARTS AS REQUIRED. LOCATE ACTUATOR TO AVOID OBSTRUCTING PERSONNEL OR EQUIPMENT.
- DAMPER INSTALLATION OUTSIDE OF WALL CAVITY IS NOT PERMITTED.
- NOTIFY ENGINEER IF THERE IS INADEQUATE SPACE WITHIN THE WALL CAVITY FOR THE LOUVER AND DAMPER.

LOUVER

NO SCALE

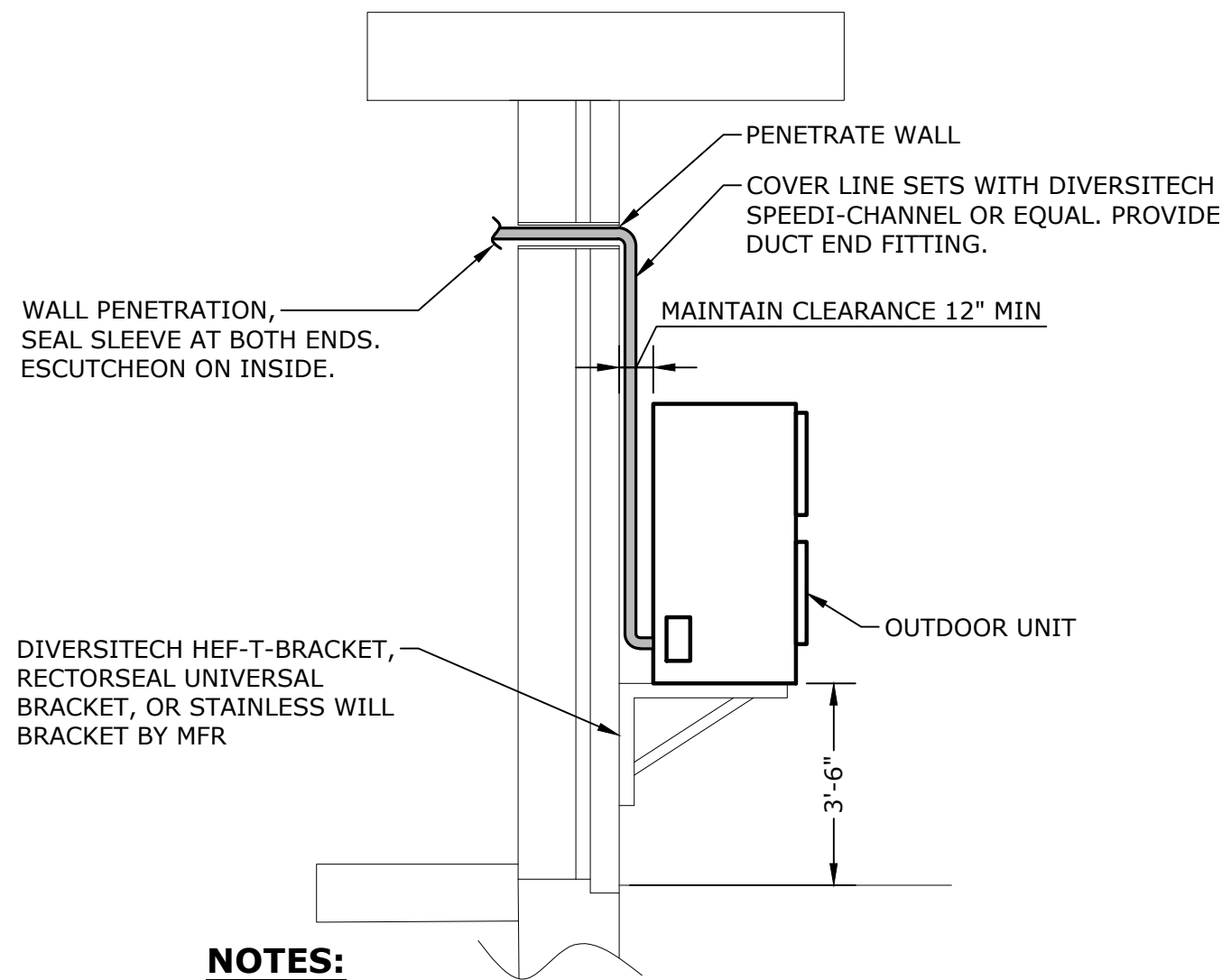


NOTES:

- PROVIDE DUCT SLEEVE IN WALL CAVITY FROM LOUVER TO INTERIOR WALL.

LOUVER - DUCTED

NO SCALE

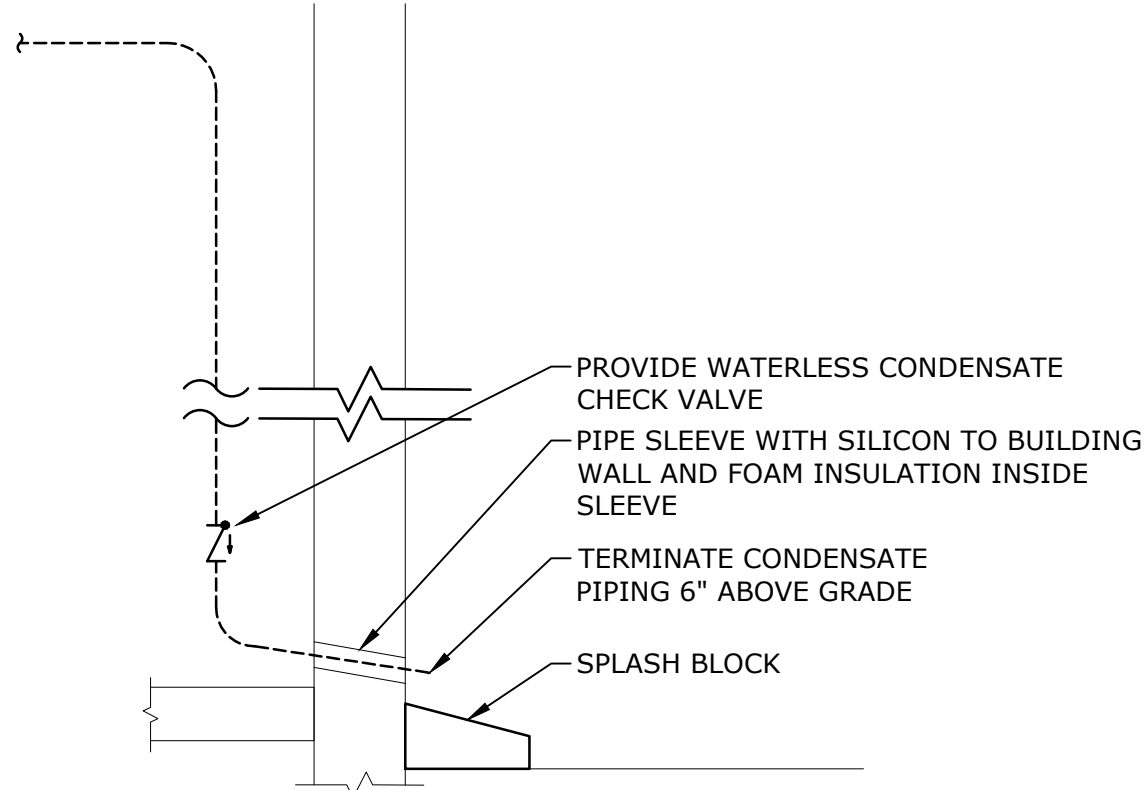


NOTES:

- DO NOT INSTALL BELOW DRIP LINE FROM ROOF OR OVERHANG. PROVIDE SNOW GUARD OR DRIP CAP IF UNAVOIDABLE.

WALL BRACKET MOUNTED OUTDOOR UNIT

NO SCALE

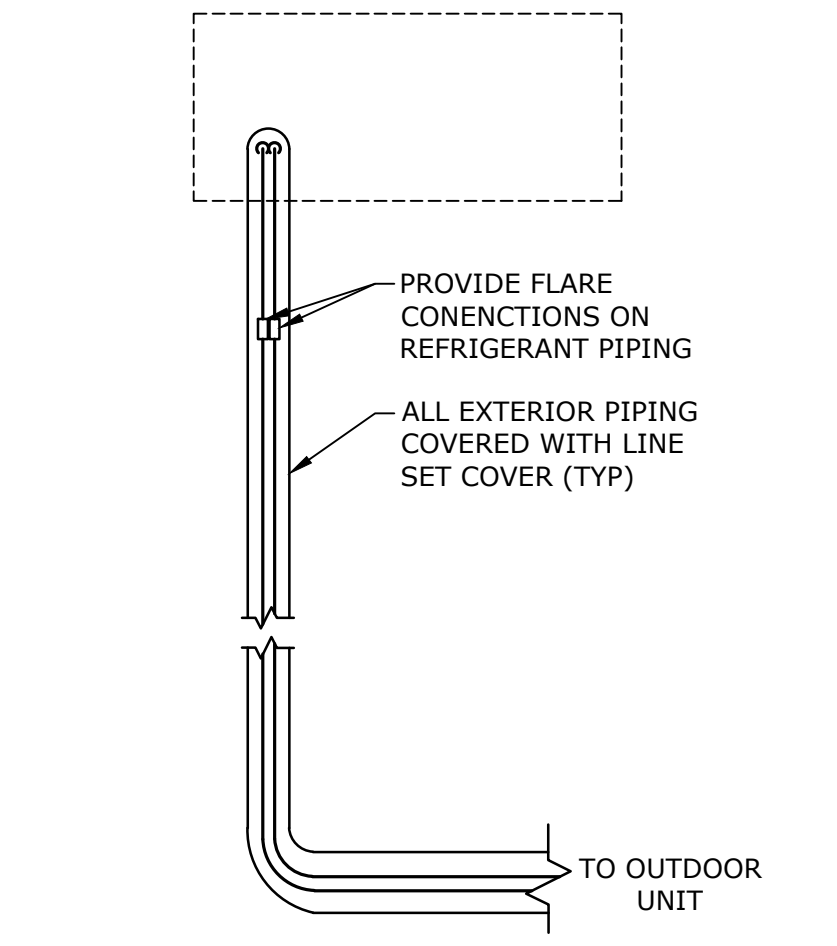


NOTES:

- CONFIRM DISCHARGE BEYOND SPLASH BLOCK IS GRATED AWAY FROM BUILDING

CONDENSATE TERMINATION

NO SCALE



LINE SET COVER INSTALLATION WITH OFFSET

NO SCALE

Tighe&Bond

1000 Bridgeport Avenue
Suite 320
Shelton, CT 06484
(203) 712-1100



FOR BIDDING

**Town Of
Vernon**

**Exit 67 Sewer
Extension**

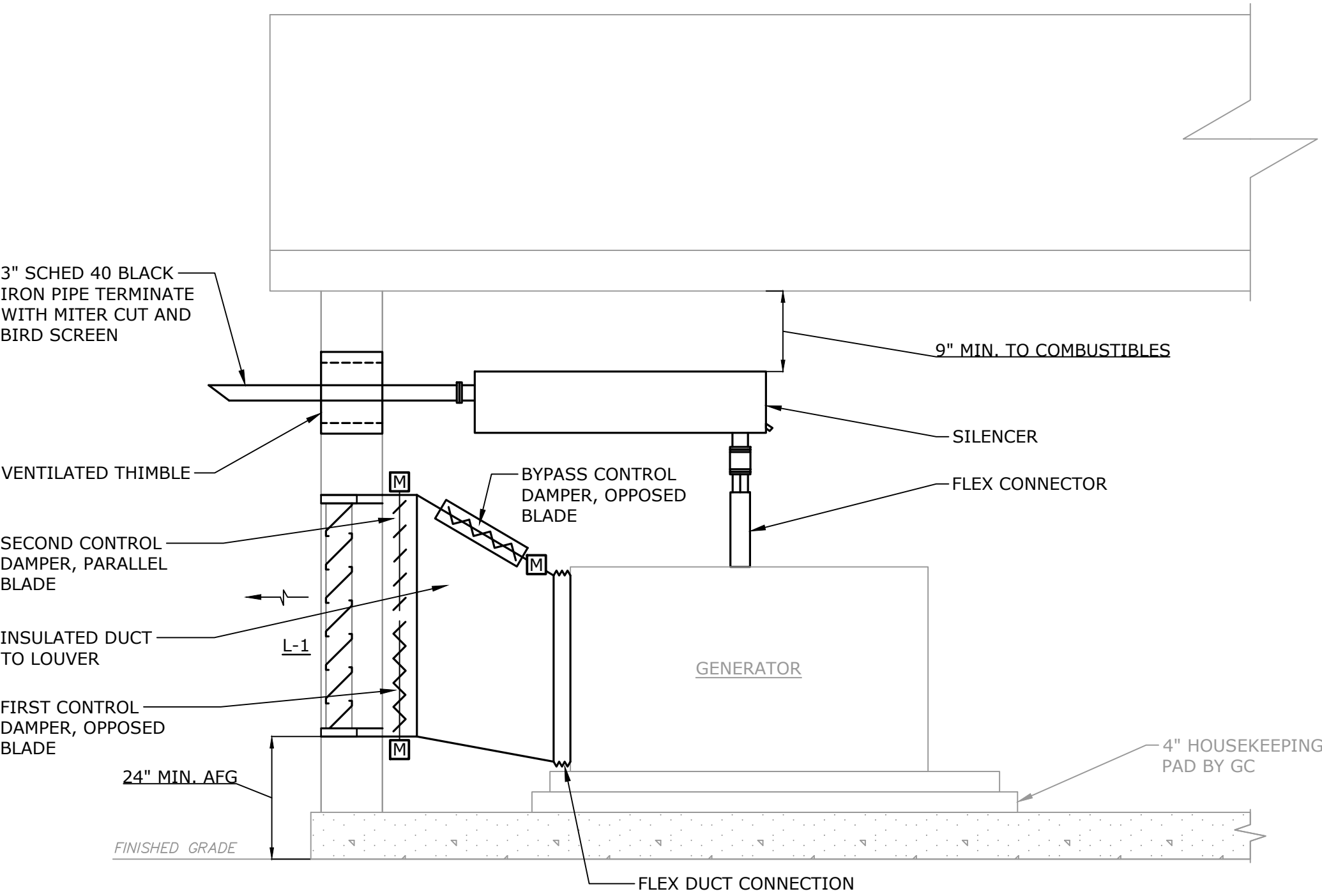
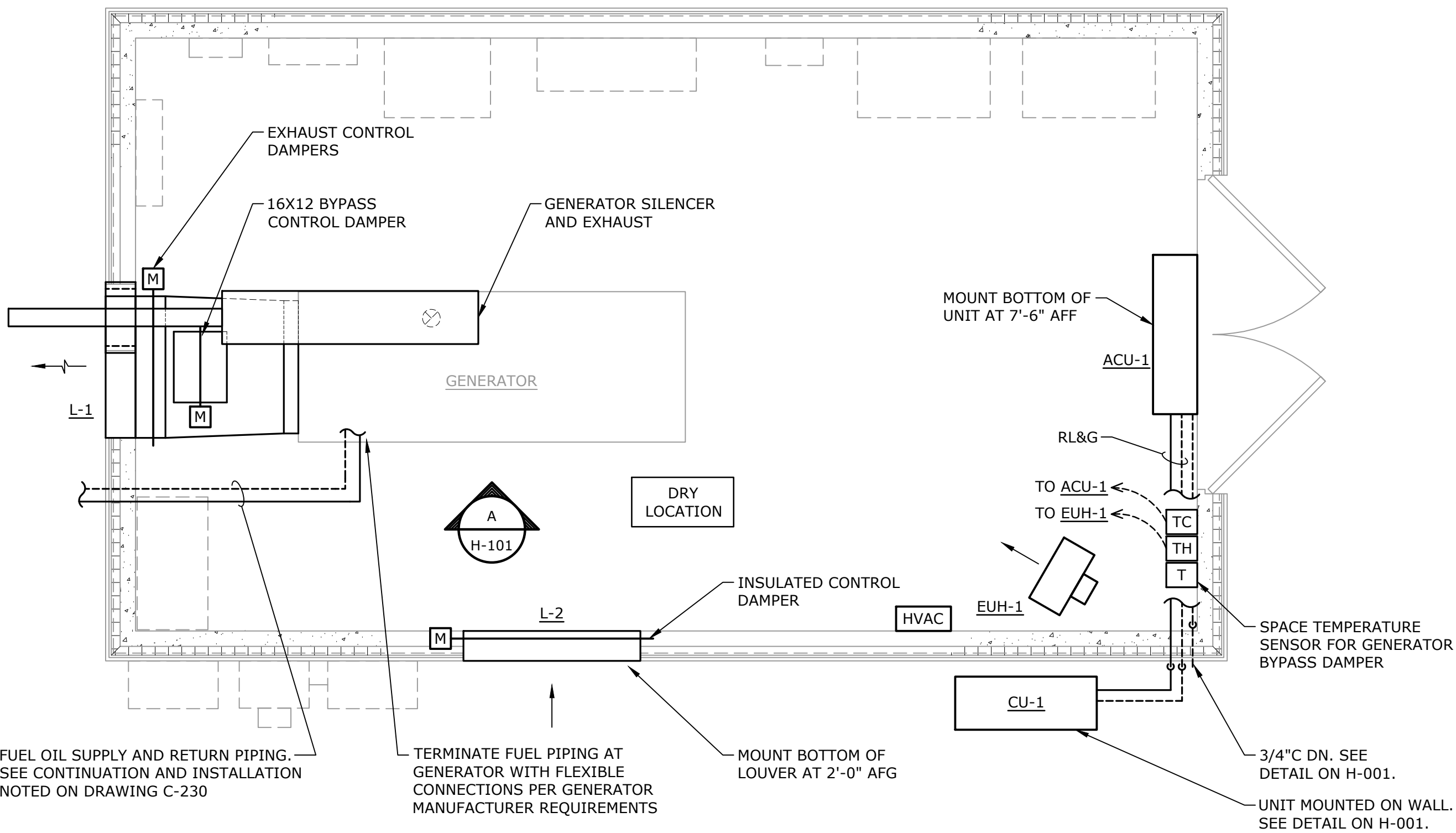
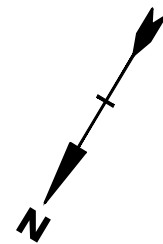
Vernon, CT

PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-H-001.dwg
DRAWN BY:	OLR
DESIGNED/CHECKED BY:	JM, RWA, JRJ
APPROVED BY:	LAC

**HVAC LEGEND,
ABBREVIATIONS, DETAILS,
AND GENERAL NOTES**

SCALE: NO SCALE

H-001



- NOTES:
- SILENCER, FLEX CONNECTOR, WALL THIMBLE AND GENERATOR PROVIDED BY THE ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR TO INSTALL SILENCER, THIMBLE AND FLEX CONNECTOR.
 - INSTALL SILENCER WITH DRAIN ON BOTTOM; OMIT INSULATION FROM DRAIN PLUG.
 - EXTEND EXHAUST PIPE 1' BEYOND SOFFIT.

SECTION A
NO SCALE H-101

DUCTLESS SPLIT HEAT PUMP UNIT SCHEDULE

INDOOR UNIT

UNIT NO.	MANUFACTURER	MODEL NO.	TOTAL COOLING CAPACITY (MBH)	HEATING CAPACITY AT 17°F (MBH)	CFM	ELECTRICAL			DIMENSIONS, H x W x D (IN.)	WEIGHT (LBS)	REMARKS
						VOLTS	PH	HZ			
ACU-1	MITSUBISHI	PKA-A12HA7	12	14	425	208	1	60	12 x 35 x 10	29	

OUTDOOR UNIT

UNIT NO.	MANUFACTURER	MODEL NO.	COMPRESSOR		SEER	ELECTRICAL				DIMENSIONS, H x W x D (IN.)	WEIGHT (LBS)	REMARKS
			RLA	LRA		VOLTS	PH	HZ	MCA			
CU-1	MITSUBISHI	PUZ-A12NKA7	7	0.5	20.80	208	1	60	11	25 x 32 x 12	93	

- GENERAL NOTES:
- MANUFACTURER TO VERIFY SIZE AND ROUTING OF REFRIGERANT PIPING.
 - PROVIDE WALL MOUNTED TEMPERATURE CONTROLLER.
 - PROVIDE WALL SUPPORTS AND HAIL GUARD FOR CONDENSING UNIT.
 - ACU-1 IS POWERED BY CU-1.

LOUVER SCHEDULE

UNIT NO.	MANUFACTURER	MODEL NO.	FUNCTION	TYPE	SIZE W x H (IN)	CFM	FA VELOCITY (FPM)	FREE AREA (SQ FT)	P.D. (IN W.C.)	REMARKS
L-1	RUSKIN	HZ700	EXHAUST	STATIONARY	32 x 40	3,290	740	4.47	0.18	
L-2	RUSKIN	HZ700	SUPPLY	STATIONARY	40 x 60	3,490	400	8.92	0.05	

- GENERAL NOTES:
- PROVIDE KYNAR FINISH AND BIRD SCREEN.
 - VERIFY COLOR OF LOUVERS WITH OWNER.

ELECTRIC UNIT HEATER SCHEDULE

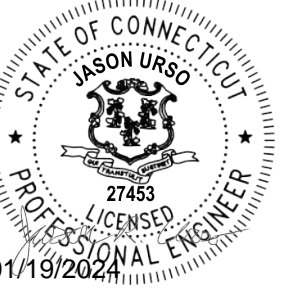
UNIT NO.	MANUFACTURER	MODEL NO.	KW	FAN HP	ELECTRICAL				CFM	STAGE	REMARKS
					VOLTS	PH	HZ	AMPS			
EUH-1	INDEECO	UCI	4	1/30	480	3	60	5	510	1	

- GENERAL NOTES:
- PROVIDE 24 VOLT THERMOSTAT, MOUNT ON WALL.
 - PROVIDE MOUNTING BRACKETS.
 - PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
 - MOUNT 7' AFF.

0 1' 2' 4'
SCALE: 1/2"=1'-0"

Tighe&Bond

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Shelton, CT 06484
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FOR BIDDING

**Town Of
Vernon**

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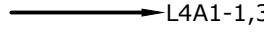
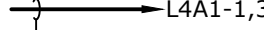
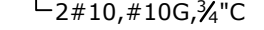

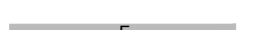



**HVAC FLOOR PLAN,
ELEVATIONS, AND
SCHEDULES**

SCALE: AS SHOWN

H-101

Last Saved: 1/17/2024 16:20:44, 0:44m By: SCh
Plotted On: Jan 16, 2024, 10:44m By: SCh
File & Save: 23/1/1/2024 16:20:44, 0:44m By: SCh
Page & Print: 23/1/1/2024 16:20:44, 0:44m By: SCh
Exit 67 Sewer Extension Design Drawings AutoCAD Sheet V0037-017 E-001.dwg

RACEWAYS AND WIRING

	L4A1-1,3	HOMERUN TO EQUIPMENT. "L4A1" INDICATES EQUIPMENT ID, "1,3" INDICATES PANELBOARD CIRCUIT NUMBERS. (20A, 1P, UNLESS INDICATED OTHERWISE) SEE DRAWINGS FOR QUANTITY AND SIZE OF WIRE AND CONDUIT. MINIMUM 2#12, #12G, IN ¾"C IF NOT INDICATED OR SCHEDULED OTHERWISE. DASHED LINES INDICATE IN OR UNDER SLAB.
	L4A1-1,3	
		CONDUIT, CONCEALED IN CONSTRUCTION IN FINISHED AREAS, EXPOSED IN UNFINISHED AREAS
		UNDERGROUND CONDUIT (SHADING INDICATES CONCRETE ENCASED)
		CONDUIT IN OR UNDER SLAB
		CONDUIT TURNING UP
		CONDUIT TURNING DOWN
	OE	OVERHEAD ELECTRIC WIRE

NOTES:

- GREEN GROUND CONDUCTOR NOT INDICATED BUT SHALL BE INCLUDED IN EACH RACEWAY. SIZE SHALL BE #12AWG UNLESS INDICATED OTHERWISE.
- HOMERUNS TO PANELBOARDS SHALL HAVE A MAXIMUM OF THREE (3) PHASE CONDUCTORS (ONE PER PHASE), (3) NEUTRALS AND (3) GROUND CONDUCTORS IN EACH CONDUIT. DERATE CONDUCTORS AS REQUIRED PER CODE.

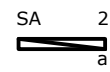



BRANCH CIRCUIT WIRING NOTES

- WIRING IS SHOWN ON DRAWINGS ONLY FOR SPECIFIC ROUTES OR SPECIAL CONDITIONS.
- WIRING AND CONDUIT SHALL BE REQUIRED BETWEEN ALL OUTLETS INDICATED WITH CIRCUIT NUMBERS AND PANEL DESIGNATIONS.
- ALL SWITCH CONTROLS SHALL BE PROVIDED WITH WIRING AND CONDUIT AS REQUIRED.
- ALTHOUGH ALL BRANCH CIRCUIT WIRING AND CONDUIT IS NOT SHOWN, IT IS THE INTENT OF THESE DOCUMENTS THAT A COMPLETE BRANCH CIRCUIT WIRING SYSTEM BE INSTALLED.
- A GREEN GROUNDING CONDUCTOR SHALL BE RUN WITH ALL CIRCUITS. VERIFY CONDUIT SIZE TO ENSURE IT CAN ACCOMMODATE ALL PHASE, NEUTRAL AND GROUND CONDUCTORS.


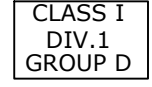
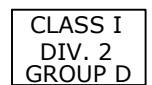

LIGHTING FIXTURES

NUMBERS/LETTERS SHOWN BESIDE LIGHT FIXTURES SHALL INDICATE THE FOLLOWING:

"SA" (CAPITAL LETTER(S) OR COMBINATION OF CAPITAL LETTER(S) AND NUMBERS) INDICATES FIXTURE TYPE.
"2" (NUMBER OR PANELBOARD NAME AND NUMBER) INDICATES CIRCUIT NUMBER.
"a" (LOWERCASE LETTER) INDICATES SWITCH CONTROL OF FIXTURE.

	SA 2	LIGHTING FIXTURE, SURFACE, RECESSED OR PENDANT MOUNTED.
		WALL MOUNTED LIGHTING FIXTURE
	EBU	WALL MOUNTED EMERGENCY LIGHTING FIXTURE WITH BATTERY BACKUP
	S _a	SINGLE POLE TOGGLE SWITCH. "a" INDICATES FIXTURE CONTROL

AREA CLASSIFICATIONS

	WET CORROSIVE LOCATION	PROVIDE NEMA 4X STAINLESS STEEL BOXES, DEVICES AND FITTINGS.
	CLASS 1 DIV.1 GROUP D	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND INSTALLATION MATERIALS AND METHODS WITHIN THE DEMARCATD AREA SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION INDICATED.
	CLASS 1 DIV. 2 GROUP D	INDICATES THAT ALL ELECTRICAL EQUIPMENT AND INSTALLATION MATERIALS AND METHODS WITHIN THE DEMARCATD AREA SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE REQUIREMENTS FOR THE HAZARDOUS AREA CLASSIFICATION INDICATED.
	DRY LOCATION	PROVIDE NEMA 12 BOXES, DEVICES AND FITTINGS.

GENERAL WIRING DIAGRAM NOTES

- DASHED LINES ON WIRING DIAGRAMS REPRESENT FIELD WIRING, WHICH SHALL BE RUN IN CONDUIT (¾" MINIMUM).
 - FIELD WIRING FOR DISCRETE/DIGITAL/DRY CONTACT TYPE SIGNALS (SHOWN CONNECTED TO RELAY CONTACTS, SWITCHES, PUSHBUTTONS, PILOT LIGHTS, ETC.) SHALL BE #14 WIRING RUN IN CONDUIT.
 - FIELD WIRING FOR EACH ANALOG/TRANSMITTER/SENSOR SIGNAL SHOWN (INCLUDING THERMISTOR & SEAL LEAK/FAIL SENSOR) SHALL BE A #18TSP CABLE (UNLESS OTHERWISE NOTED) RUN IN CONDUIT.
 - LINES CALLED OUT AS ETHERNET (DASHED OR SOLID) REPRESENT AN ETHERNET CABLE RUN IN CONDUIT.
- PRIOR TO INSTALLING ANY CONDUITS OR PULLING ANY WIRE, CONFIRM WIRING REQUIREMENTS WITH THE EQUIPMENT AND/OR SYSTEM SUPPLIER'S SUBMITTED WIRING DIAGRAMS. CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES.
- PRIOR TO PERFORMING WIRING ON VENDOR SUPPLIED CONTROL PANELS AND VENDOR SUPPLIED EQUIPMENT, THE CONTRACTOR SHALL COORDINATE EXACT WIRING CONNECTIONS FROM VENDOR SUPPLIED WIRING DIAGRAMS. IF THERE ARE ANY DISCREPANCIES, REPORT THIS TO THE ENGINEER AND THE ENGINEER WILL PROVIDE DIRECTION ON HOW TO PROCEED.
- FIELD WIRING REQUIREMENTS ARE NOT SHOWN ON THE DRAWING. REFER TO SITE/FLOOR PLANS FOR ADDITIONAL FIELD WIRING REQUIREMENTS.
- #18 TSP SIGNAL CABLE MAY BE COMBINED WITH OTHER #18 TSP SIGNAL CABLE IN CONDUIT (UP TO 3") SIZED FOR 40% FILL.
- #14 CONTROL WIRING MAY BE COMBINED WITH OTHER #14 CONTROL WIRING IN CONDUIT (UP TO 2") SIZED FOR 40% FILL.

ABBREVIATIONS

#	ITEM IDENTIFICATION NUMBER
A	AMPERE
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ATS	AUTOMATIC TRANSFER SWITCH BATTERY CHARGER
C	CONDUIT
CB	CIRCUIT BREAKER
CP	CONTROL PANEL
DP	DISTRIBUTION PANEL
EF	EXHAUST FAN
EUH	ELECTRIC UNIT HEATER
EXP	EXPLOSION-PROOF
EYS	EXPLOSION-PROOF VERTICAL SEAL
EXIST	EXISTING
G	GROUND
GCP	GENERATOR CONTROL PANEL
GFI	GROUND FAULT INTERRUPT
GEN	GENERATOR
HP	HORSEPOWER
JBOX	JUNCTION BOX
KW	KILOWATTS
KVA	KILOVOLT-AMPS
KAIC	KILOAMP INTERRUPT CAPACITY
LE	LEVEL ELEMENT TRANSMITTER
LP	LIGHTING PANEL
LSH	LEVEL SWITCH HIGH
LSHH	LEVEL SWITCH HIGH HIGH
LSI	LONG/SHORT TIME, INSTANTANEOUS (CIRCUIT BREAKER SETTINGS)
LSL	LEVEL SWITCH LOW
LSLL	LEVEL SWITCH LOW LOW
MS	MOTION SENSOR
MCB	MAIN CIRCUIT BREAKER
MCP	MISSION CONTROL PANEL
MTS	MANUAL TRANSFER SWITCH
N	NEUTRAL
NEMA	NATIONAL ELECTRIC MANUFACTURE ASSOCIATION
NEC	NATIONAL ELECTRIC CODE
P	POLE
PC	PHOTO CELL
PCP	PUMP CONTROL PANEL
PH	PHASE
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
RGS	RIGID GALVANIZED STEEL
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
TSP	TWISTED SHIELDED PAIR CABLE
TYP	TYPICAL
V	VOLTS
VFD	VARIABLE FREQUENCY DRIVE
W	WATT
WP	WEATHERPROOF
XFMR	TRANSFORMER

GENERAL NOTES

- BOLD TEXT AND LINES INDICATE PROPOSED WORK, LIGHT TEXT AND LINES INDICATE APPROXIMATE EXISTING CONDITIONS.
- FOR ELECTRICAL DETAILS, REFER TO DETAIL DRAWINGS
- REFER TO PROCESS MECHANICAL DRAWINGS AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT LOCATIONS AND POWER REQUIREMENTS.
- COORDINATE ALL DEVICE LOCATIONS WITH GC AND/OR OWNER PRIOR TO ROUGH-IN.
- COORDINATE ALL REQUIRED OPENINGS/PENETRATIONS THROUGH WALLS, FLOORS, AND CEILING WITH OTHER TRADES AND APPROVED EQUIPMENT SUBMITTALS.
- ALL PIPES OR OTHER UTILITIES DAMAGED DURING THE CONTRACTOR'S OPERATIONS SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR OR REPLACE AT NO COST TO THE OWNER.
- SUPPORT ALL UTILITIES AND STRUCTURES DURING CONSTRUCTION AND MAKE REPAIRS IF DAMAGED.
- THE LOCATIONS OF EXISTING UTILITIES AND EQUIPMENT ARE APPROXIMATE. DETERMINE THE EXACT LOCATION OF EXISTING UTILITIES AND STRUCTURES BEFORE COMMENCING WORK. BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES AND STRUCTURES.

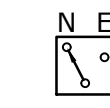


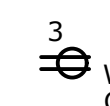
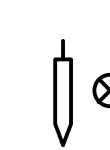
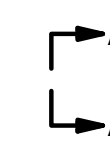

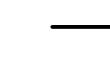
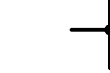
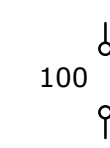
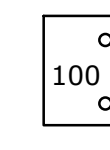
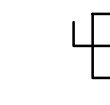
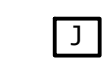




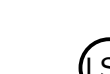
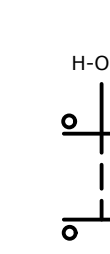
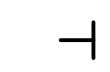
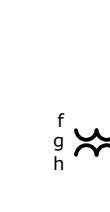




GENERAL POWER NOTES

- REFER TO PROCESS MECHANICAL & CIVIL DRAWINGS AND VENDOR DRAWINGS FOR COORDINATION OF EQUIPMENT LOCATIONS.
- ALL RECEPTACLES SHALL BE GFI TYPE.
- COORDINATE ALL DEVICE LOCATIONS WITH GC PRIOR TO ROUGH-IN.

GENERAL SITE NOTES

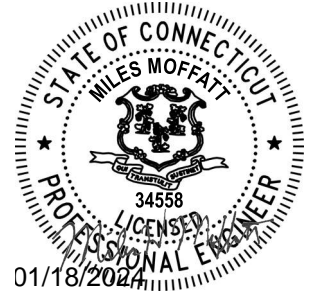
- REFER TO THE CIVIL DRAWINGS FOR THE EXACT LOCATION OF ALL SITE EQUIPMENT.
- ALL EXCAVATION, TRENCHING, BACK FILL AND COMPACTION OF DUCT BANKS, TRANSFORMER PADS, SITE LIGHTING BASE LOCATION, BY THE GENERAL CONTRACTOR.

ELECTRICAL SYMBOLS

	N E o	AUTOMATIC TRANSFER SWITCH N=NORMAL POWER SOURCE, E=EMERGENCY POWER SOURCE
	M 2	MOTOR, "10" INDICATES HORSEPOWER
		PANELBOARD
	3 WP GFI	DUPLEX RECEPTACLE. "3" INDICATES POWER CIRCUIT NUMBER WP=WEATHER PROOF, GFI=INTEGRAL GROUND FAULT INTERRUPTER
		GROUND ROD
		DUCT BANK DETAIL
		GROUND CONNECTION
		SOLID LINES INDICATE WIRING WITHIN CONTROL PANEL OR MCC
		WIRES CONNECTED
	100	THERMAL MAGNETIC TRIP BREAKER (AMPS RATING INDICATED)
	100	ENCLOSED CIRCUIT BREAKER (AMPS RATING INDICATED)
		SURGE PROTECTION DEVICE, SERVICE ENTRANCE
	J J	JUNCTION BOX
	LE	LEVEL ELEMENT/SENSOR
		UTILITY METER
		UTILITY POLE
	LSH	HIGH LEVEL FLOAT SWITCH
	LSL	LOW LEVEL FLOAT SWITCH
	H-O-A XOO OOX	HAND-MOTION SENSOR-OFF THREE POSITION SWITCH X=CONTACT CLOSED, O=CONTACT OPEN
		CONTROL RELAY CONTACT (NORMALLY OPEN)
	f g h a b c d e	TRANSFORMER a = DEVICE ID b = KVA RATING c = NUMBER PHASES d = PRIMARY VOLTAGE e = SECONDARY VOLTAGE f,g = CONNECTION TYPE SYMBOL h = IMPEDANCE
		FUSED DISCONNECT SWITCH, SIZE OF SWITCH AND FUSE AS REQUIRED
	BC	BATTERY CHARGER
	BH	BLOCK HEATER
		THERMOSTAT

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**Town Of
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**Exit 67 Sewer
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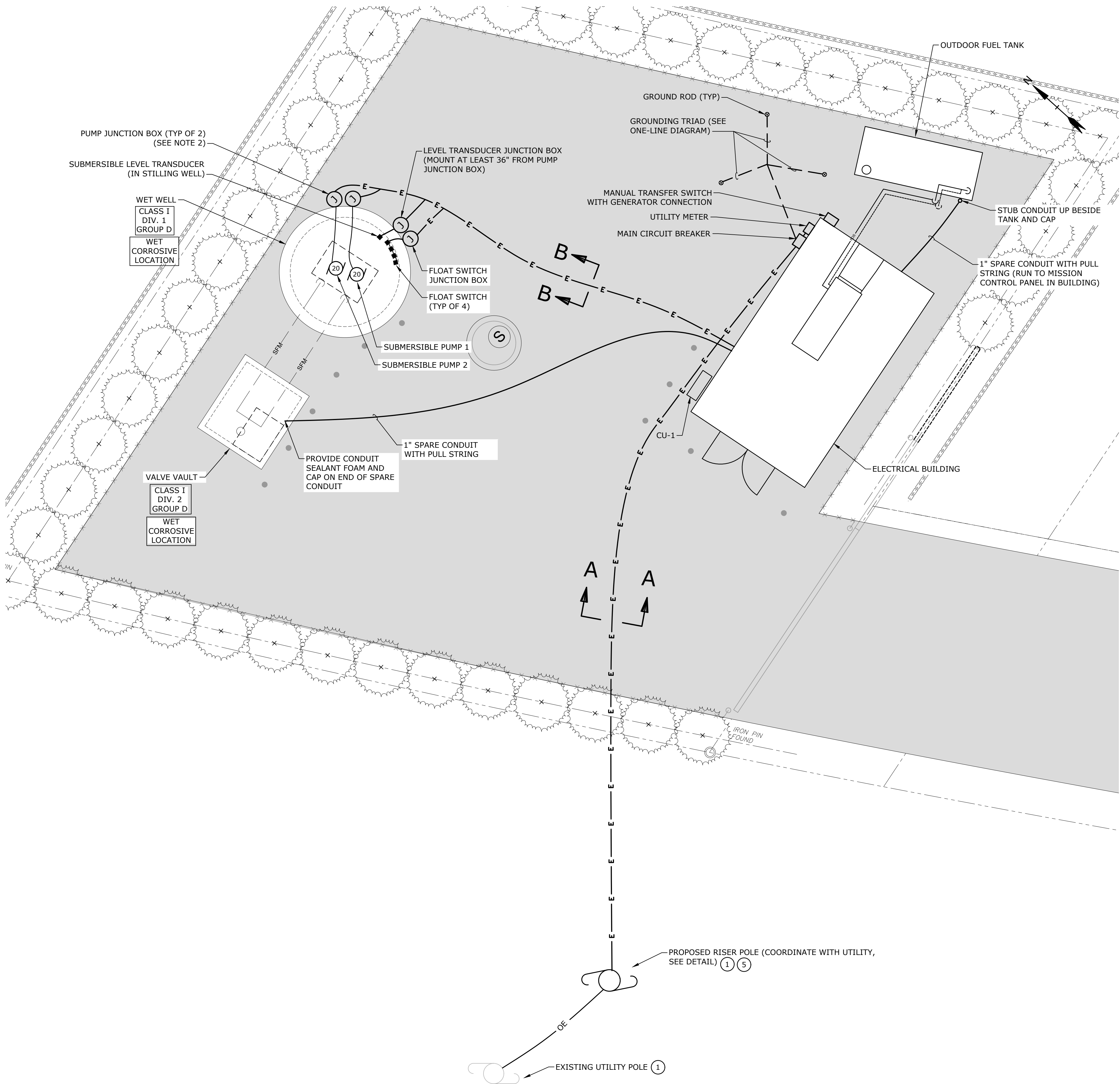
PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-E-001.dwg
DRAWN BY:	SG
DESIGNED/CHECKED BY:	MJR
APPROVED BY:	MJR

ELECTRICAL LEGEND

SCALE: NO SCALE

E-001

Last Saved: 1/18/2024 10:18:22 AM By: SGR
Plotted On: Jan 18, 2024, 12:12pm By: SGR
Page & Count: 1/1 V0037 - Exit 67 Sewer Extension Design Drawings AutoCAD Sheet V0037-017 E-100.dwg

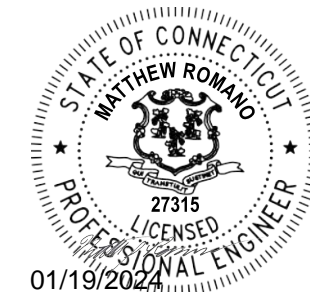


GENERAL NOTES:

- COORDINATE CONDUIT, WIRE AND UTILITY POLE/SERVICE INSTALLATION DETAILS WITH THE UTILITY COMPANY. REFER TO SHEET E-602 FOR UTILITY POLE DETAILS.
- THE SPACE WITHIN THE BELOW-GRADE WET WELL IS A CLASS I DIV 1 HAZARDOUS LOCATION. THE ENTIRE ENVELOPE 3 FEET AROUND THE HATCH OF THE WET WELL, EXTENDING TO A HEIGHT OF 1.5 FEET, IS A CLASS I DIV 2 HAZARDOUS LOCATION. THE ENTIRE AREA 3 FEET AROUND THE JUNCTION BOXES IS A CLASS I DIV 1 HAZARDOUS LOCATION. THE SPACE WITHIN THE BELOW GRADE VALVE VAULT IS A CLASS I DIV 2 HAZARDOUS LOCATION. THE CONTRACTOR SHALL VERIFY THE EXTENT OF ALL HAZARDOUS AREAS IN THE FIELD AND PROVIDE ALL EQUIPMENT IN ACCORDANCE WITH NEC REQUIREMENTS.
- RUN MANUFACTURER CABLE IN CONDUIT FROM PUMPS AND INSTRUMENTATION TO ELECTRICAL JUNCTION BOXES. STUB CONDUIT 3" OUT INTO WETWELL; EXPOSED CONDUIT IN THE WETWELL SHALL BE STAINLESS STEEL. PROVIDE STAINLESS STEEL CONDUIT BUSHING AND CONDUIT SEALANT AT CONDUIT OPENING.
- PROVIDE EXPLOSION-PROOF SEALS WHERE SHOWN AND PROVIDE ADDITIONAL SEALS WHERE REQUIRED BY CODE.
- PROVIDE RIGID STEEL SWEEP AND RISER UP THE POLE PER UTILITY REQUIREMENTS. COORDINATE REQUIREMENTS AND INSTALLATION OF NEW RISER POLE AND NEW POLE MOUNTED TRANSFORMERS WITH UTILITY.
- COORDINATE WITH GC TO PROVIDE 10 FT OF SPARE PUMP CABLE COILED AT TOP OF WETWELL. FASTEN CABLE TO WETWELL WALL, USE ALL STAINLESS STEEL HARDWARE, STAINLESS STEEL SPRING CLIPS AND STAINLESS STRAPS.

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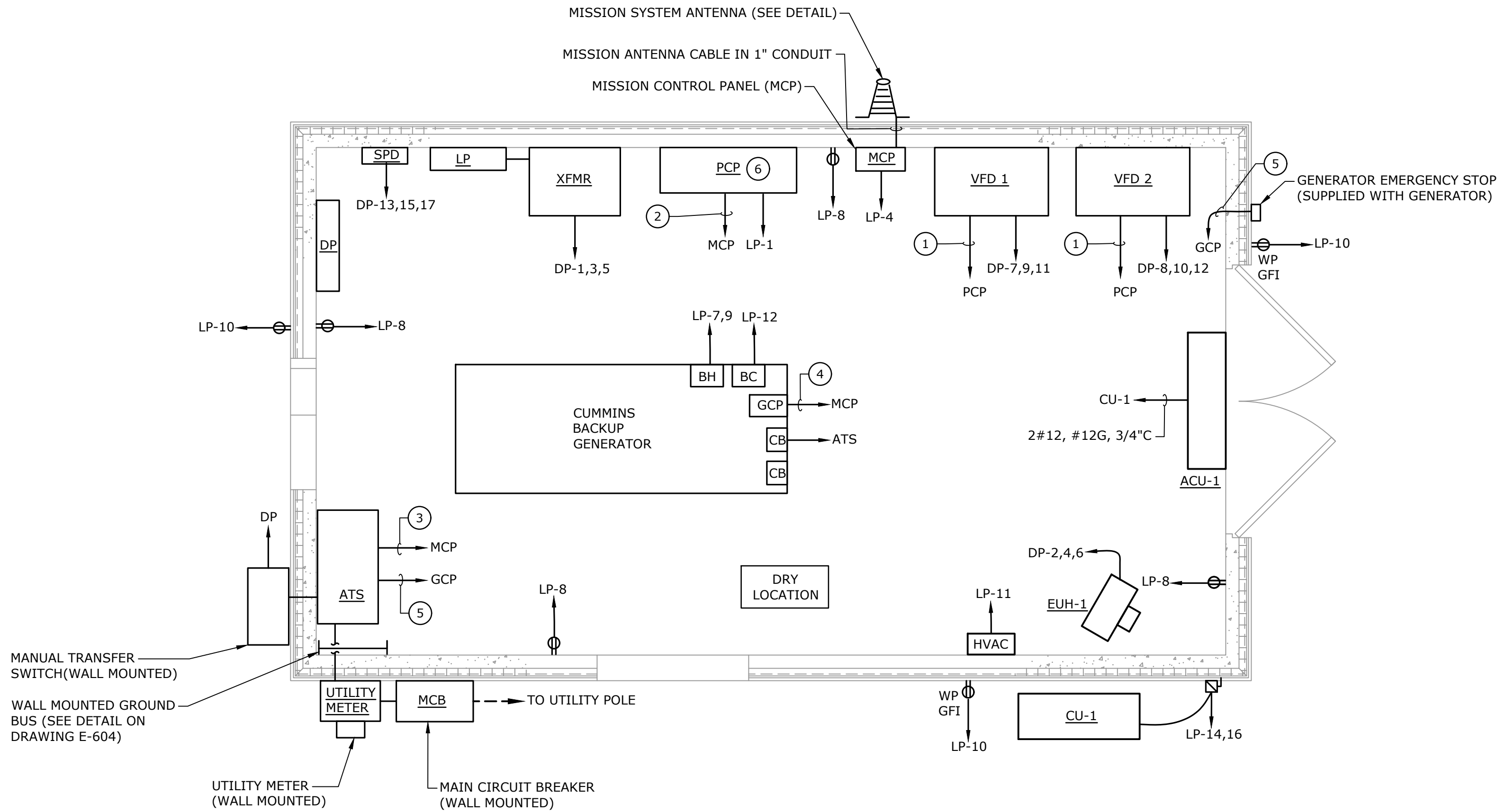
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PROJECT NO:	V0037-017
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DRAWN BY:	SG
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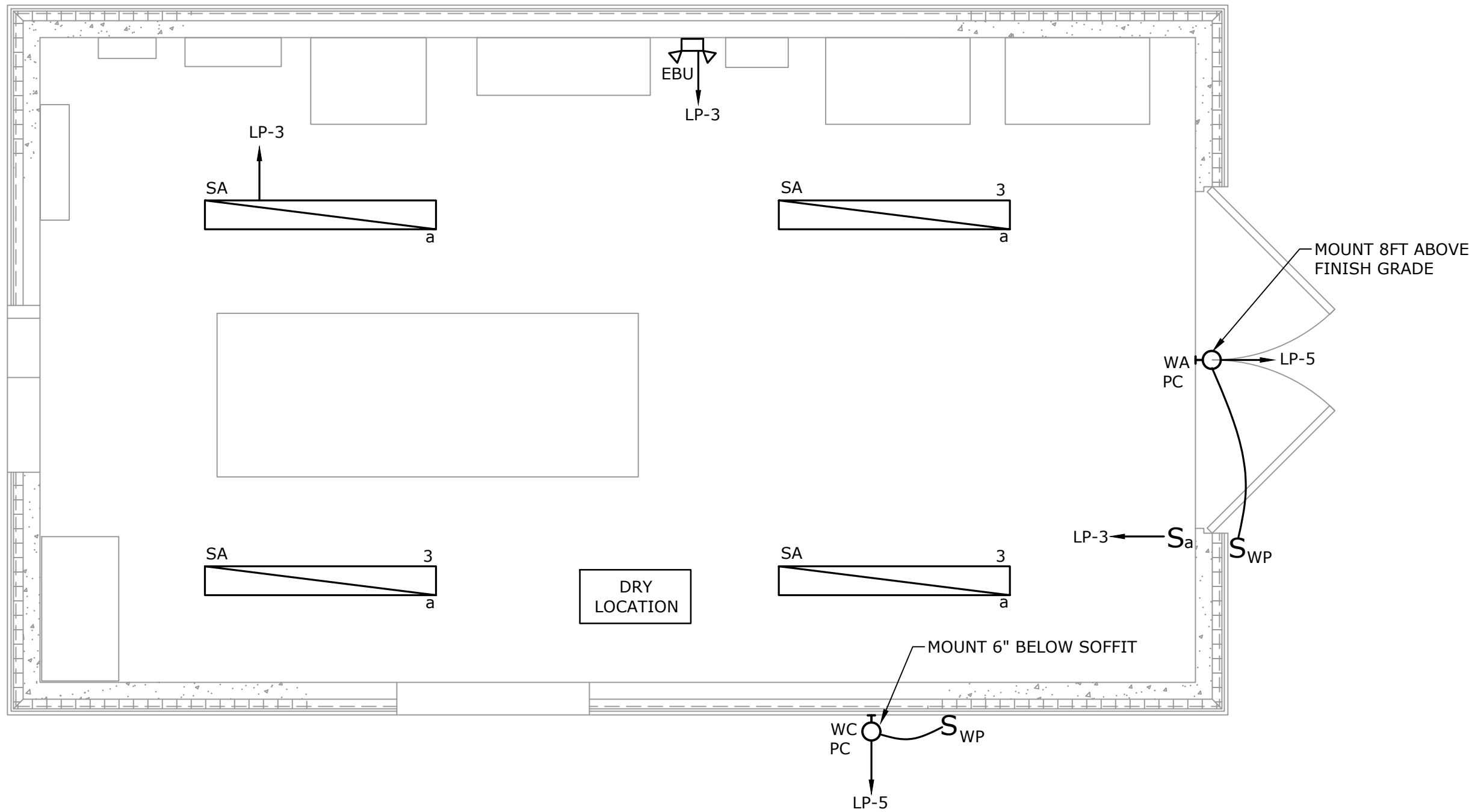
**ELECTRICAL
SITE PLAN**

SCALE: AS SHOWN

E-100



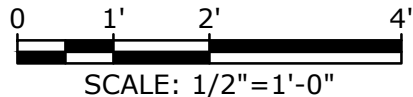
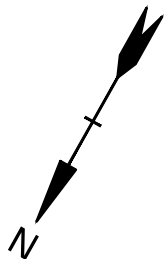
ELECTRICAL FLOOR PLAN



ELECTRICAL LIGHTING PLAN

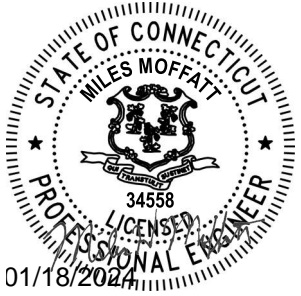
KEY NOTES:

- 16#14, 1#14G, 4#14 SPARE, 2#18 TSP, 1"C
- 16#14, 1#14G, 4#14 SPARE, 2#18, TSP 1-1/2" C
- 4#14, 1#14G, 2#14 SPARE, 3/4" C
- 6#14, 1#14G, 2#14 SPARE, 3/4" C
- 2#14, 1#14G, 2#14 SPARE, 3/4"C
- PUMP CONTROL PANEL TO BE FURNISHED BY THE PUMP SUPPLIER



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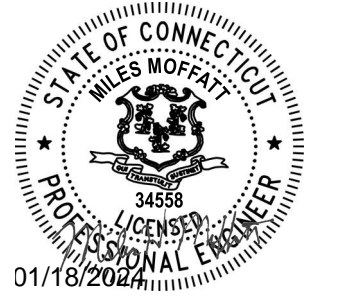
Vernon, CT

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ELECTRICAL FLOOR PLAN

SCALE: AS SHOWN

E-101



Town Of Vernon

Vernon, CT

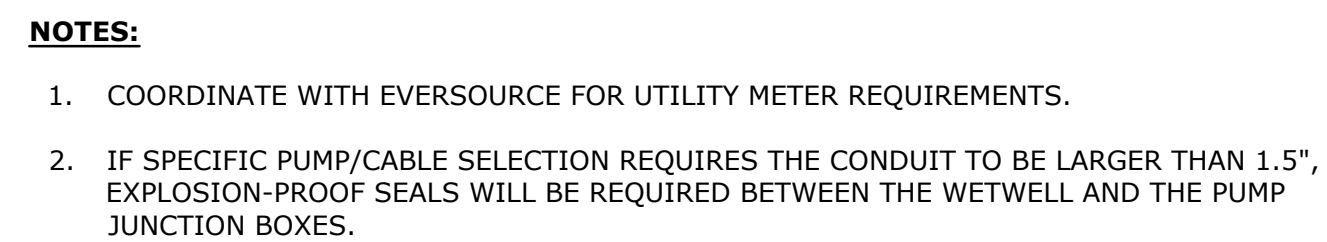
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DATE:	JANUARY 2024
FILE:	V0037-017-E-501.dwg
DRAWN BY:	SG
DESIGNED/CHECKED BY:	MJR
APPROVED BY:	MJR

PANELBOARD SCHEDULE & ONE LINE DIAGRAM

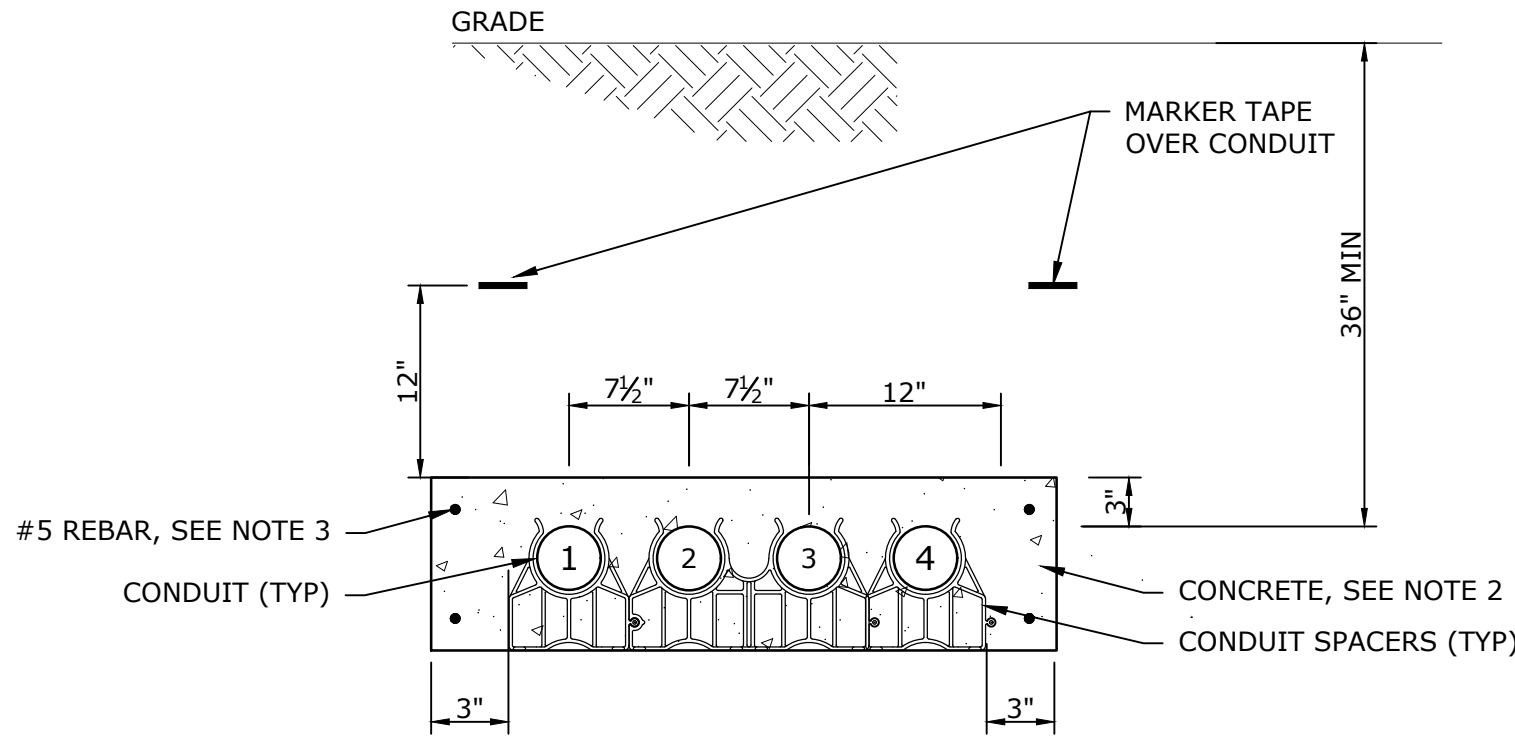
SCALE:	NO SCALE
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E-501

		VOLTAGE (L-L):	208	PHASE:	3	WIRE:	4	VA, L1	3,644	PANEL NO.	LP					
		VOLTAGE (L-N):	120					VA, L2	3,444							
		MAIN BUS:	100	AMPS				VA, L3	1,700	LOCATION:						
		MAIN BREAKER:	60	A FRAME		60	A TRIP			NOTES:	MAIN BREAKER SHALL BE PROVIDED WITH					
		MOUNTING:	SURFACE		KAIC:	22		TOTAL VA	8,788		LSI SETTINGS					
WIRE SIZE	CONDUIT SIZE	DIRECTORY	VA LOAD			CKT.	AMPS		AMPS	CKT.	VA LOAD			DIRECTORY	CONDUIT SIZE	WIRE SIZE
			L1	L2	L3						L1	L2	L3			
2#12 & 1#12G	3/4"	PUMP CONTROL PANEL	1,000			1	20		20	2			SPARE	-	-	
2#12 & 1#12G	3/4"	LIGHTING INTERIOR		300		3	20		20	4		500	MISSION CONTROL PANEL	3/4"	2#12 & 1#12G	
2#12 & 1#12G	3/4"	LIGHTING EXTERIOR			200	5	20		20	6			SPARE	-	-	
2#12 & 1#12G	3/4"	GENERATOR BLOCK HEATER	500			7	20		20	8	1,000		RECEPTACLES INTERIOR	3/4"	2#12 & 1#12G	
-	-			500		9			20	10		1,000	RECEPTACLES EXTERIOR	-	-	
2#12 & 1#12G	3/4"	HVAC CONTROL PANEL			1,000	11	20		20	12			500	GENERATOR BATTERY CHARGER	3/4"	2#12 & 1#12G
-	-	SPARE				13	20		20	14	1,144		CU-1/ACU-1	3/4"	2#12 & 1#12G	
-	-					15				16		1,144		-	-	
-	-	SPARE				17	20		20	18			SPARE	-	-	
-	-					19				20				-	-	
-	-	SPACE AND HARDWARE				21				22			SPACE AND HARDWARE	-	-	
-	-	SPACE AND HARDWARE				23				24			SPACE AND HARDWARE	-	-	
-	-	SPACE AND HARDWARE				25				26			SPACE AND HARDWARE	-	-	
-	-	SPACE AND HARDWARE				27				28			SPACE AND HARDWARE	-	-	
-	-	SPACE AND HARDWARE				29				30			SPACE AND HARDWARE	-	-	
		SUBTOTAL	1,500	800	1,200						2,144	2,644	500	SUBTOTAL		



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Plotted On: Jan 18, 2024 5:59am By: SGW
Page & Count: 23 / V0037_Vernon WWT017 - Exit 67 Sewer Extension Design (Drawings AutoCAD) Sheet V0037-017 E-601.dwg

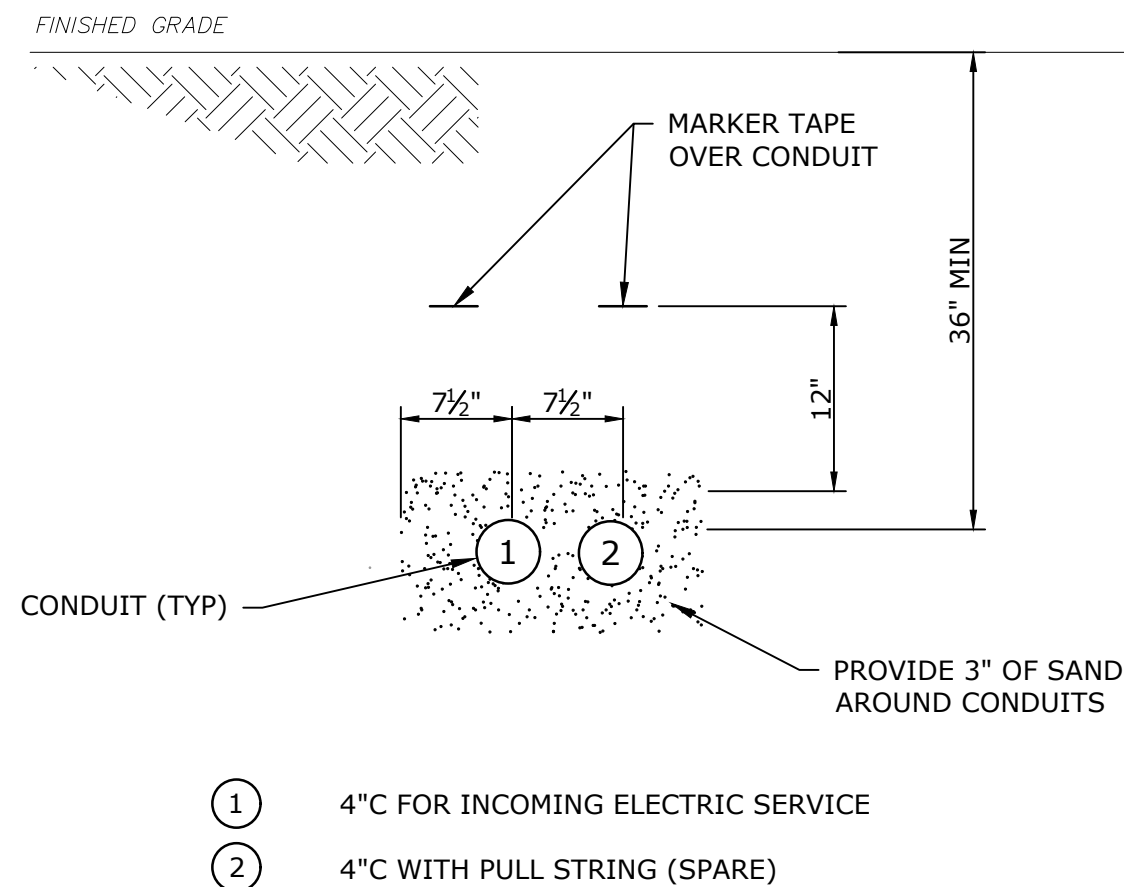


- ① 2" C FOR PUMP 1 POWER/SIGNALS FROM PUMP 1 VFD TO PUMP 1 JBOX.
- ② 2" C FOR PUMP 2 POWER/SIGNALS FROM PUMP 2 VFD TO PUMP 2 JBOX.
- ③ 2" C FOR LEVEL TRANSDUCER/SIGNALS FROM PCP TO LEVEL TRANSDUCER JBOX.
- ④ 2" C FOR FLOAT SWITCH SIGNALS FROM PCP TO LEVEL FLOAT SWITCH JBOX.

SECTION B-B
UNDERGROUND CONCRETE ENCASED DUCT BANK
NO SCALE

DUCT BANK GENERAL NOTES:

1. CONCRETE ENCASING FOR CONCRETE ENCASED DUCT BANKS SHALL BE CONTINUOUS ALONG THE ENTIRE LENGTH OF THE DUCT BANK.
2. CONCRETE SHALL BE PRE-MIX 3,000 P.S.I. 6" SLUMP LEAN CONCRETE.
3. #5 REBAR SHALL BE PLACED CONTINUOUS ALONG DUCT BANK (MINIMUM OF 4), WITH A MINIMUM 3" COVER ALONG BOTTOM SIDE, AND 3" COVER ALONG REMAINING THREE SIDES.

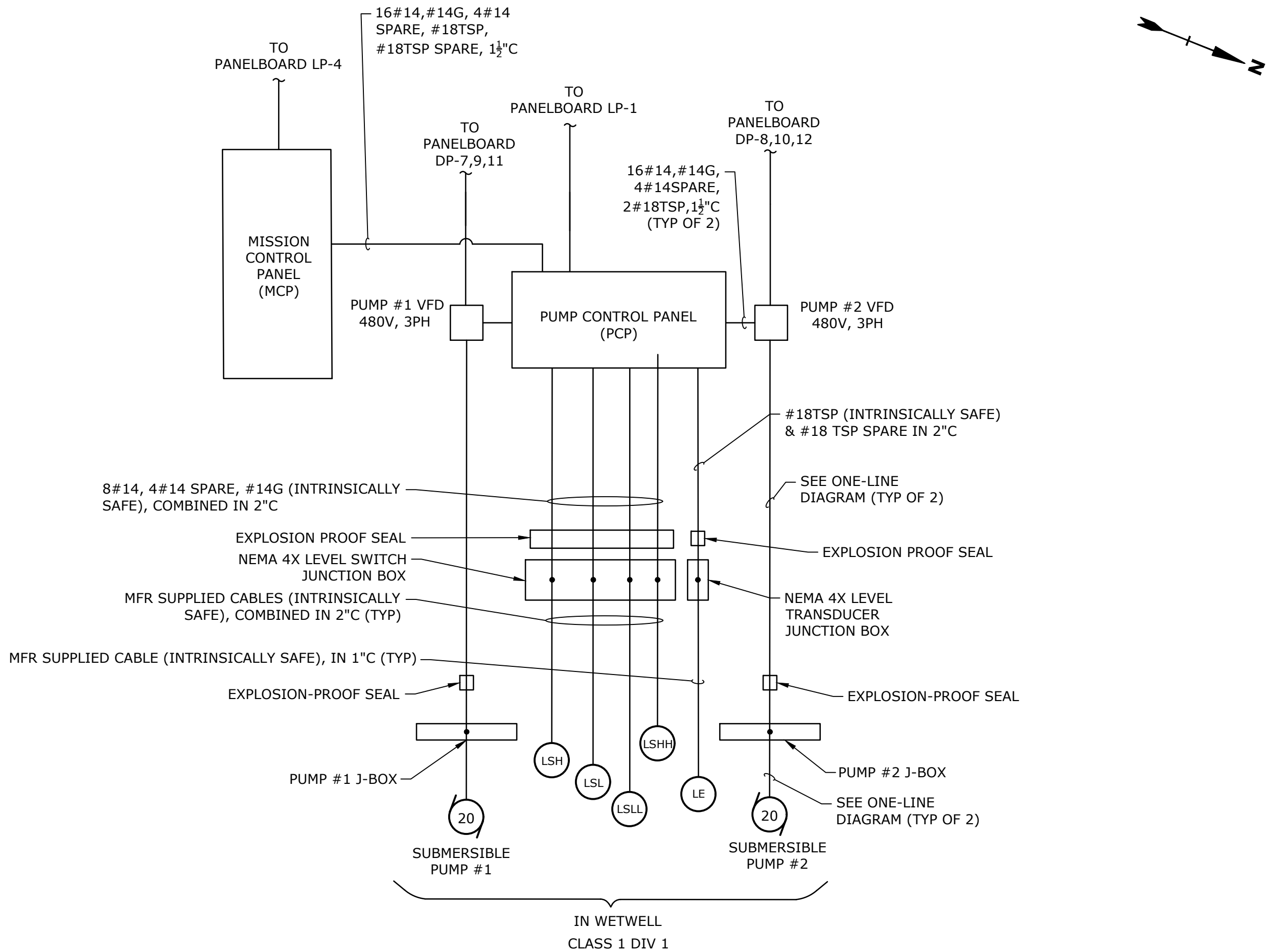


- ① 4" C FOR INCOMING ELECTRIC SERVICE
- ② 4" C WITH PULL STRING (SPARE)

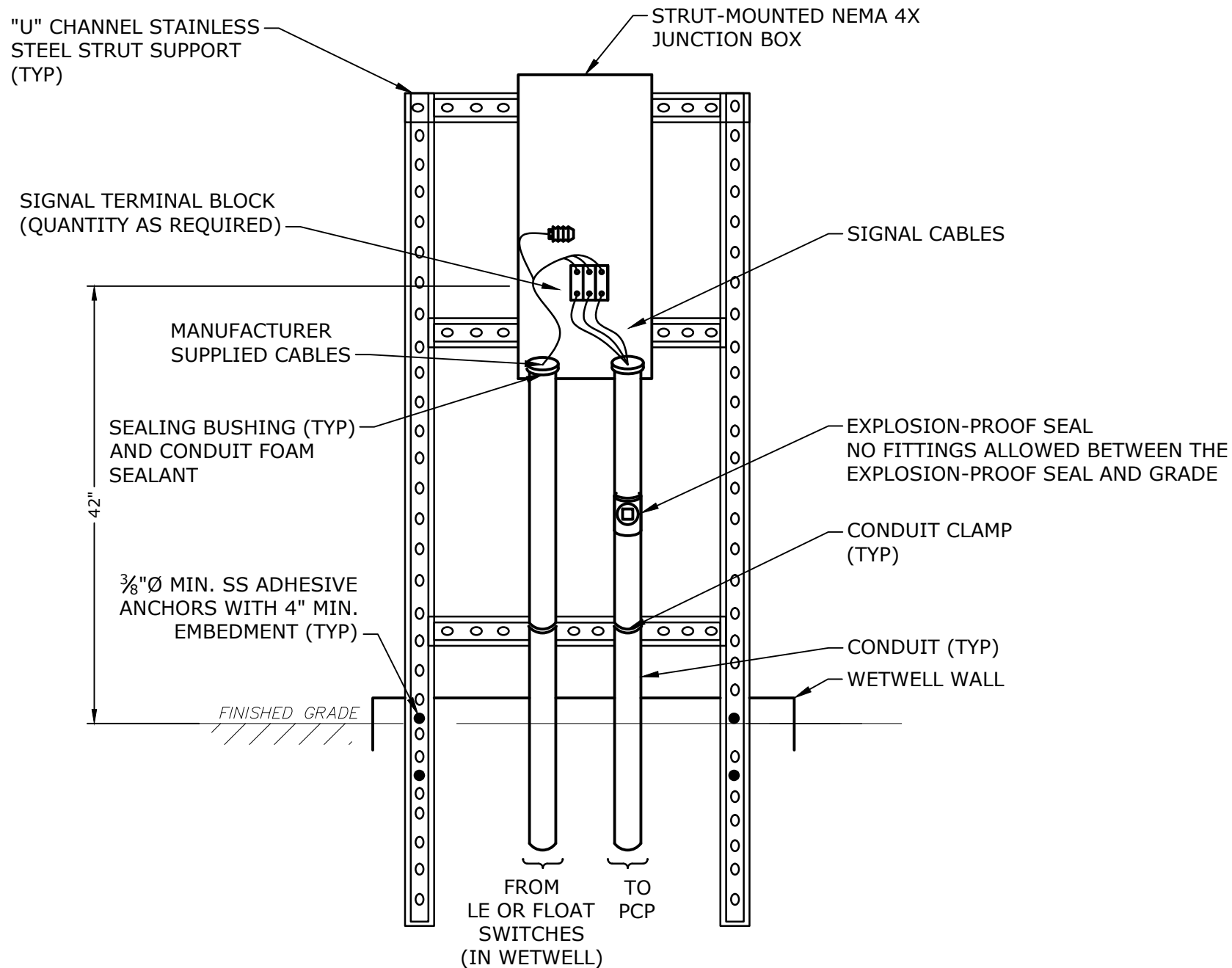
NOTE:

1. PROVIDE CONCRETE ENCASEMENT WHERE RUN BELOW PAVEMENT.

UNDERGROUND CONDUIT DUCT BANK A-A



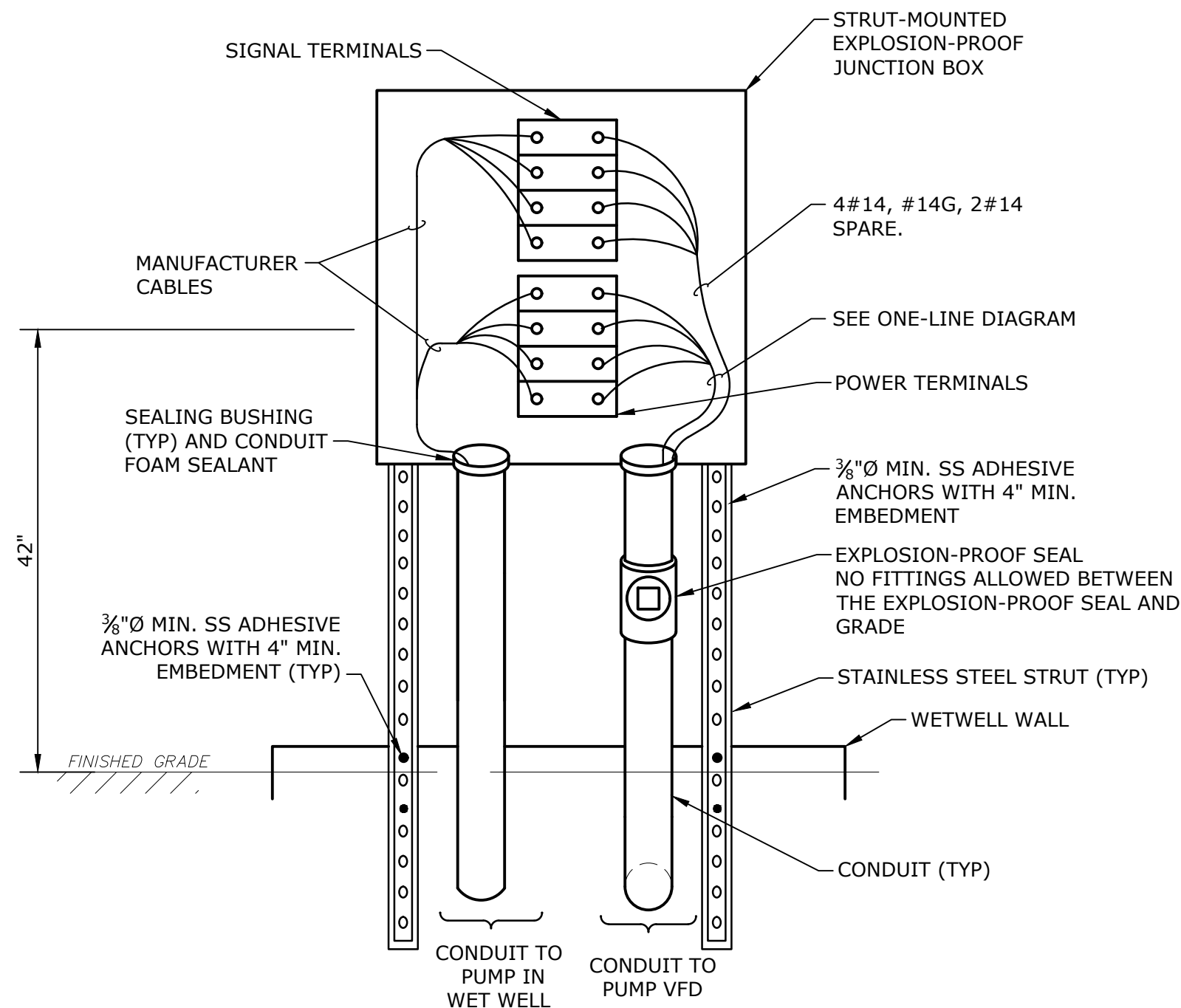
PUMP CONTROL PANEL AND MISSION CONTROL PANEL WIRING & CONDUIT DIAGRAM



NOTE:

1. MOUNT AT LEAST 36" AWAY FROM THE PUMP JUNCTION BOXES.

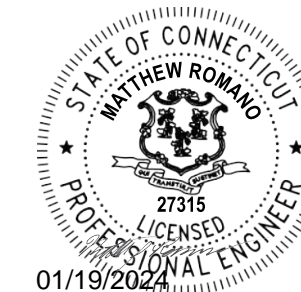
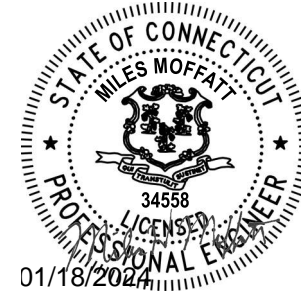
LEVEL TRANSDUCER/FLOAT SWITCH JUNCTION BOX
ELEVATION AND DETAIL
NO SCALE



PUMP JUNCTION BOX
ELEVATION AND DETAIL
NO SCALE
TYP OF SUBMERSIBLE PUMPS 1 AND 2

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DESIGNED/CHECKED BY:	MJR
APPROVED BY:	MJR

ELECTRICAL DETAILS-1

SCALE: NO SCALE

E-601

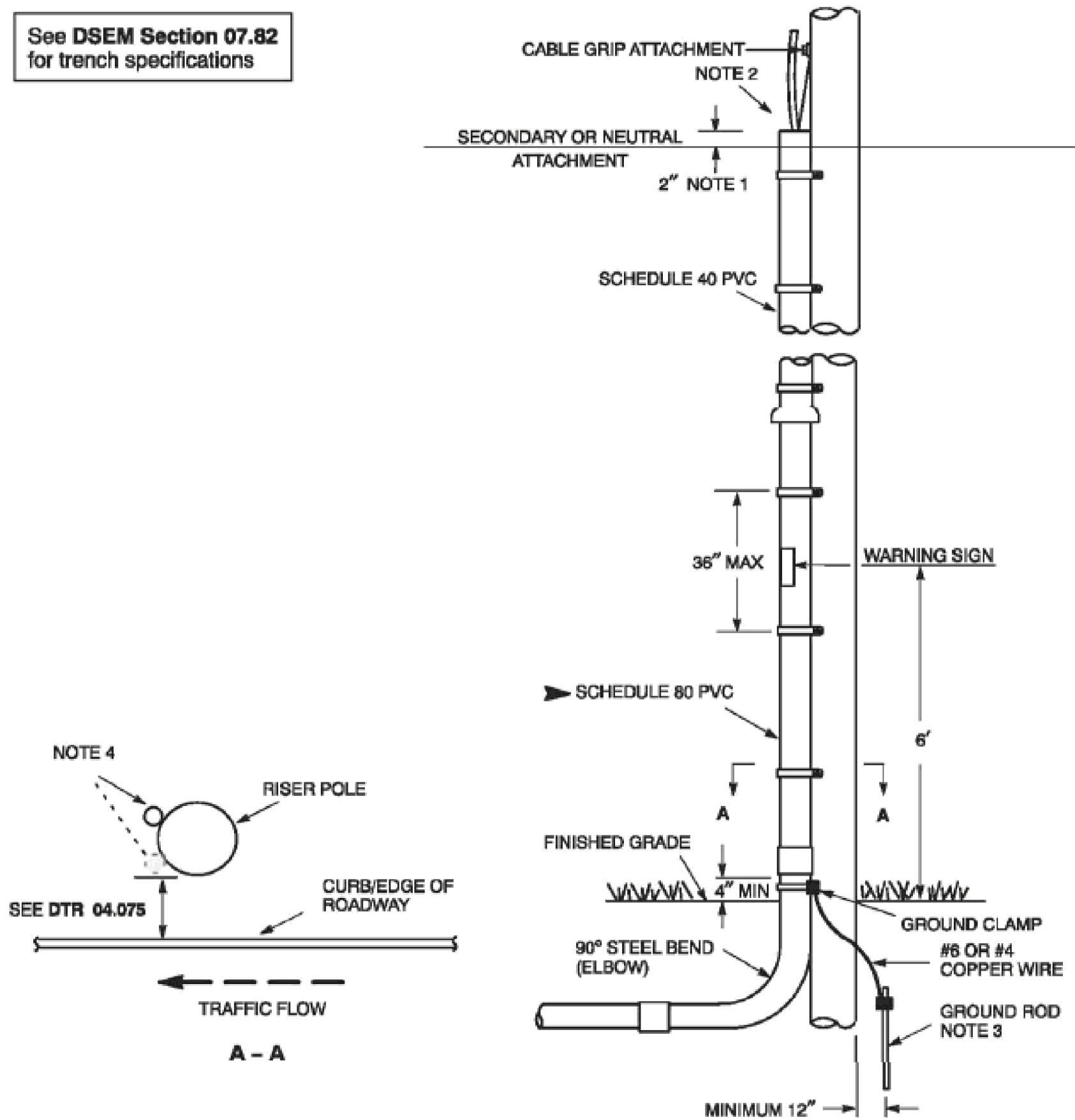
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Plotted On: Jan 16, 2024, 10:01am
Page & Count: 23 / V0037 - Exit 67 Sewer Extension Design Drawings AutoCAD Sheet V0037-017-E-602.dwg

RISER POLE DETAILS (POLE PROVIDED BY EVERSOURCE)

EVSOURCE SHALL DESIGNATE CONDUIT RISER LOCATIONS ON THE POLE. ALL RISERS SHALL BE GALVANIZED STEEL, THIS INCLUDES THE 90 DEGREE SWEEP. PER NESC ALL STEEL RISERS MUST BE BONDED 6" FROM TOP AND THE BOND MUST BE AT LEAST 8" ABOVE FROM FINISHED GRADE.

THE ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING THE BOND CLAMPS AND THE TAP. EVSOURCE WILL MAKE THE BOND CONNECTION FROM THAT RISER BOND TAP TO THE GROUND SYSTEM ON THE POLE.

See DSEM Section 07.82 for trench specifications



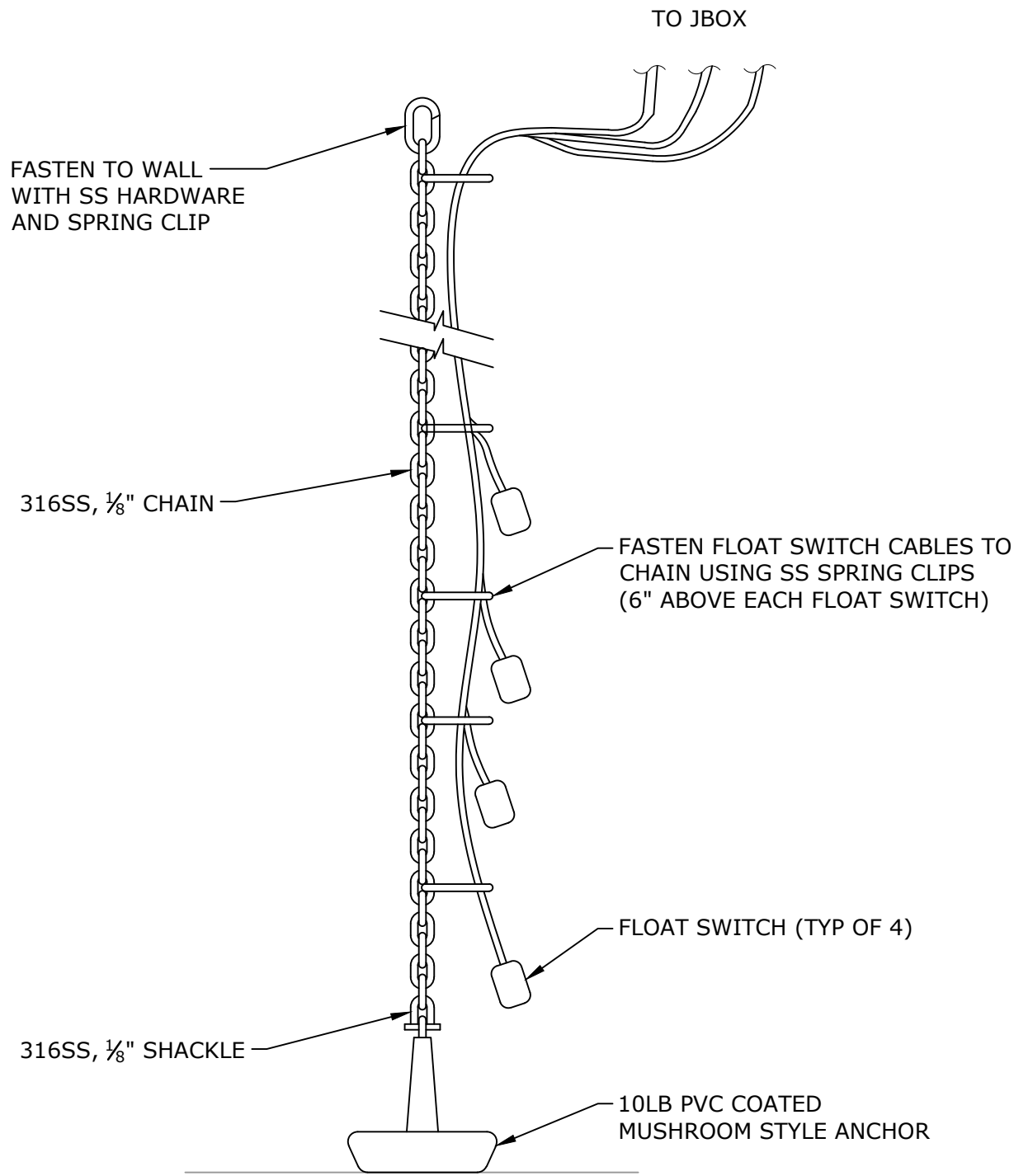
- Notes**
1. Top of conduit to extend at least 2 inches above the neutral/secondary attachment.
 2. Seal conduit from water entry at top of riser for services installed in conduit for the entire run. See **DTR 12.010**.
 3. Steel conduit shall be grounded. If the steel elbow is installed in a nonmetallic conduit installation, it shall also be grounded. Use 5/8" x 8' galvanized steel ground rod and ground clamp.
 4. Preferred location for riser placement is on field side of pole opposite the direction of traffic. Check riser path for obstructions, and coordinate with other utilities for placement of risers and any equipment. (Road side of pole opposite the direction of traffic is reserved for road crossings.)
 5. Contact the toll-free telephone number to locate buried cables before driving ground rods.

EVSOURCE UTILITY POLE DETAILS
NO SCALE

ALL DETAIL AND PAGE NUMBER REFERENCES REFER TO THE EVSOURCE INSTALLATION GUIDE.

NOTES:

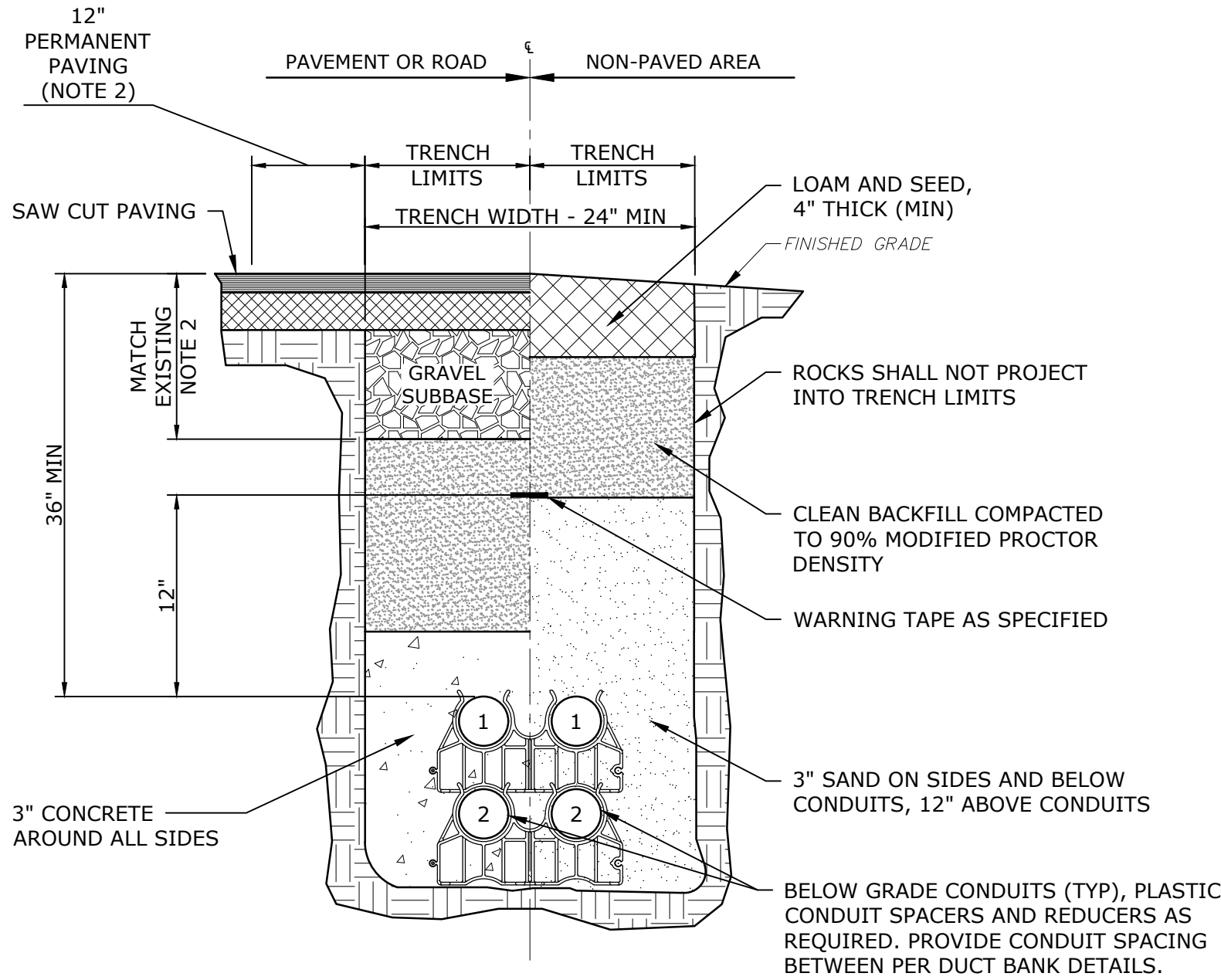
1. RISER PIPE IS TO BE LOCATED ON FIELD QUARTER AWAY FROM TRAFFIC.
2. INSTALL SPARE RISER THROUGH THE SWEEP AND TERMINATE AT BASE OF POLE WITH A COUPLING AND CONDUIT PLUG. GROUND THE SPARE SWEEP.
3. APPROVED MATERIALS LIST SHALL BE PROVIDED BY EVSOURCE.
4. RISER SWEEP IN DIRECT BURIED APPLICATION SHALL BE ENCASED IN CONCRETE.



NOTES:

1. ALL FLOAT SWITCHES AND CABLES SHALL BE LABELED AND TAGGED.
2. COORDINATE MOUNTING ELEVATIONS WITH THE ENGINEER.

FLOAT SWITCH ANCHOR INSTALLATION DETAIL
NO SCALE



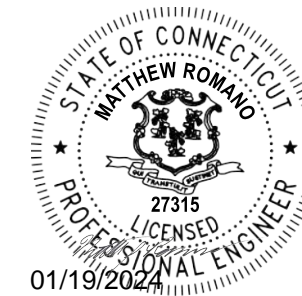
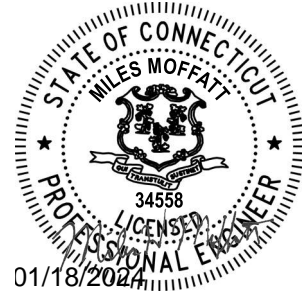
NOTES:

1. REFER TO ELECTRICAL SITE PLAN AND DUCT BANK DETAILS FOR SPECIFIC REQUIREMENTS. (TYP FOR ALL DUCT BANK TRENCHES)
2. MIN OF 1.5" HMA TOP COURSE PAVEMENT, 2.5" HMA BINDER COURSE, AND 12" GRAVEL SUBBASE.

TYPICAL CONDUIT TRENCH DETAIL
NO SCALE

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APPROVED BY:	MJR

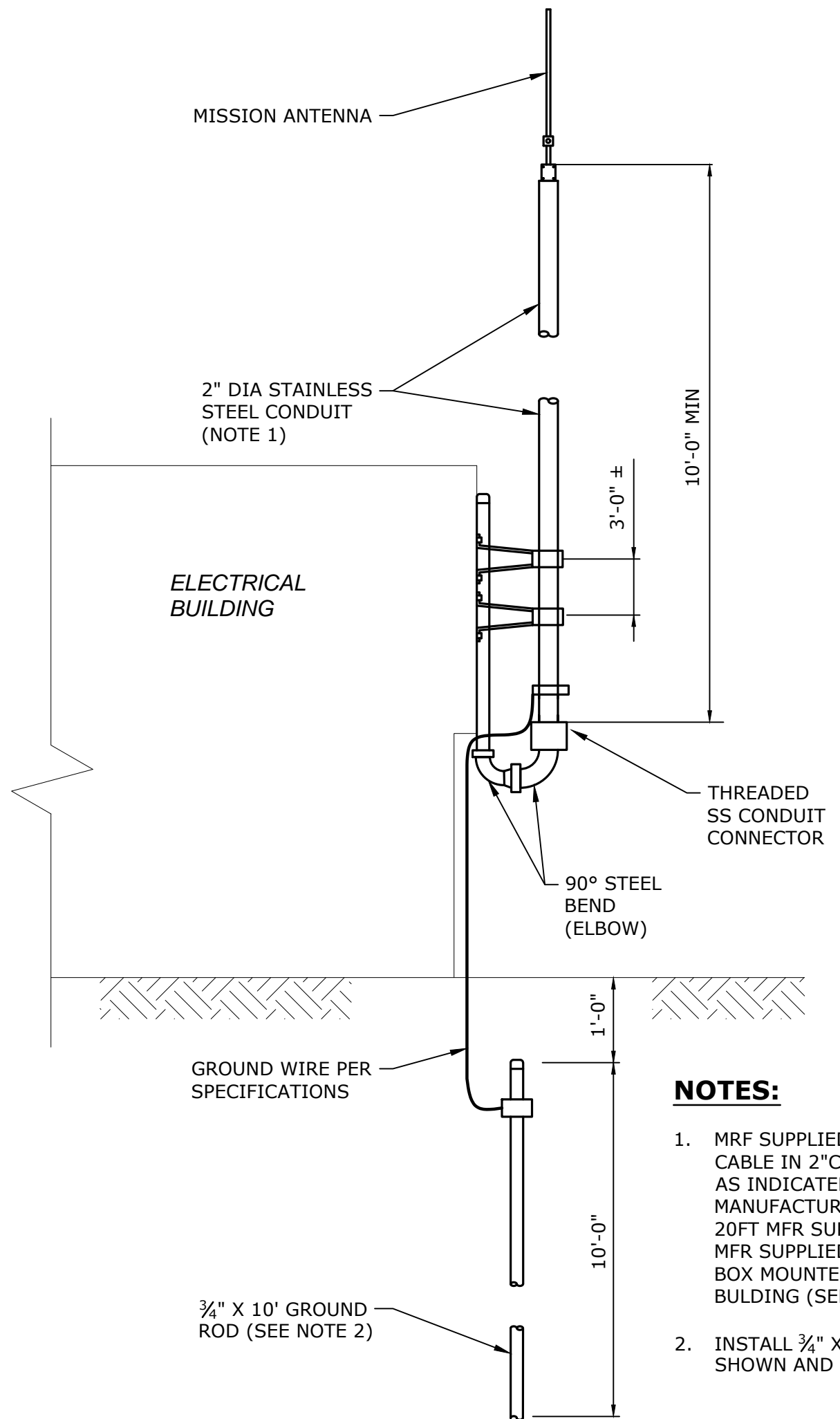
ELECTRICAL DETAILS-2

SCALE: NO SCALE

E-602

TYPE	FIXTURE DESCRIPTION	MANUFACTURER					LAMP DATA			
		MANUFACTURER	CATALOG NUMBER (LED FIXTURES)	EQUAL MFG #1	EQUAL MFG #2	WATTS	TYPE	K	VOLT	
SA	SURFACE LED IP67 RATED STAINLESS STEEL HARDWARE	XTRALIGHT	VTE4-5000L-40K-SFA-SSL-SRG	KURTZON	MOBERN	42	LED	4000	120	
WA	LED EXTERIOR WALL PACK WITH EMERGENCY BATTERY	XTRALIGHT	DC150-90-24W-40K-BZ-PC1-D1-EM	KIM	UTOPIA	24	LED	4000	120	
WC	WALL-MOUNTED LED SCONCE - AREA LIGHTING	XTRALIGHT	OWP-LED-2-06-150-X4-X-UN-X-X-P-X-B-V	HOLOPHANE	KURTZON	142	LED	4000	UNV	
EBU	EMERGENCY BATTERY UNIT - NEMA 4X	EMERGLITE	W-12SV24M-2-L-DA			24	LED		UNV	

LIGHT FIXTURE SCHEDULE



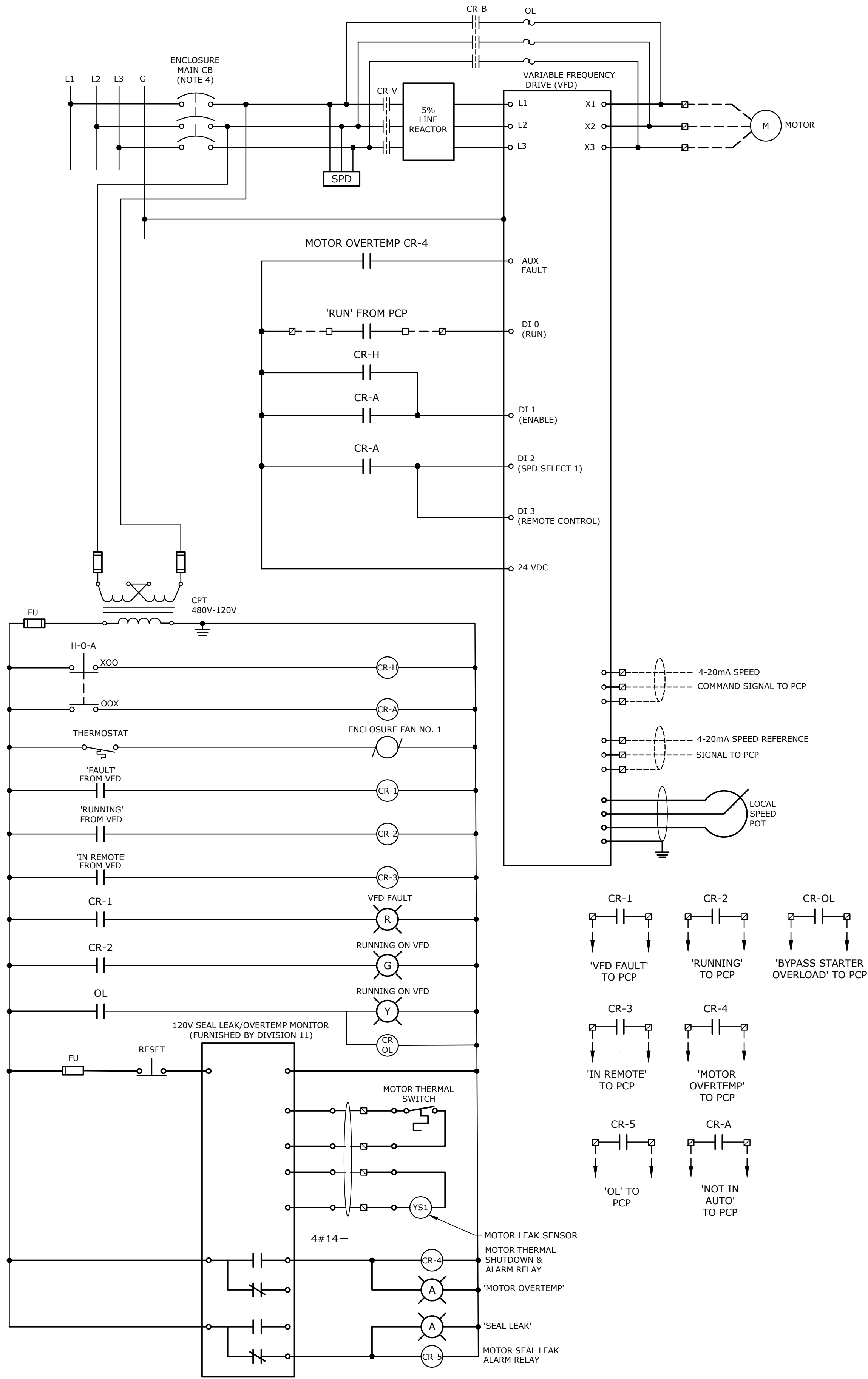
NOTES:

- MRF SUPPLIED MISSION ANTENNA CABLE IN 2\"C - ROUTE ANTENNA CABLE AS INDICATED. MISSION CONTROL MANUFACTURER TO FURNISH MIN. 20FT MFR SUPPLIED CABLE. TERMINATE MFR SUPPLIED CABLE IN TERMINAL BOX MOUNTED INSIDE OF THE BULDING (SEE DETAIL).
- INSTALL 3/4\" X 10' GROUND ROD AS SHOWN AND PER NEC.

MISSION ANTENNA MOUNT DETAIL
NO SCALE

VFD NOTES:

- MOUNT ALL PILOT LIGHTS, SWITCHES AND VFD KEYPAD ON DOOR OF VFD ENCLOSURE.
- CPT SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS.
- VFD SHALL BE PROVIDED WITH PROPER VENTILATION/COOLING AS REQUIRED PER VFD MANUFACTURER.
- FUSES AND/OR CIRCUIT BREAKERS SHALL BE SIZED PER NEC IN ACCORDANCE WITH ASSOCIATED LOADS. ENCLOSURE MAIN CIRCUIT BREAKER SHALL HAVE A THROUGH-THE-DOOR HANDLE AND SHALL BE INTERLOCKED WITH THE ENCLOSURE DOOR.
- DRIVE TO BE PROVIDED WITH SURGE SUPPRESSION. (SEE 16265).
- ALL EQUIPMENT SHALL BE INSTALLED IN NEMA 12 STEEL ENCLOSURE.
- VFD SHALL BE CONTROLLED BY THE PCP WHEN THE 3-POSITION SWITCH IS IN THE 'AUTO' POSITION AND SHALL RUN (AT SPEED AS INDICATED BY THE POTENTIOMETER) WHEN THE SWITCH IS IN THE 'HAND' POSITION.
- PROVIDE THE FOLLOWING (NOT SHOWN FOR CLARITY) AND ASSOCIATED WIRING/RELAYS: 'VFD-BYPASS' 2-POSITION SWITCH, GREEN "RUNNING ON BYPASS" PILOT LIGHT, AND OTHER CONTROLS REQUIRED FOR FULLY FUNCTION BYPASS STARTER.



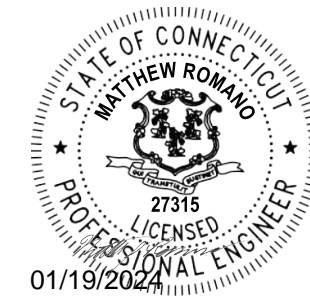
PUMP VFD WIRING DIAGRAM

TPP OF SUBMERSIBLE PUMPS 1 AND 2

PROVIDE THE FOLLOWING (NOT SHOWN FOR CLARITY) AND ASSOCIATED WIRING/RELAYS: 'VFD-BYPASS' 2-POSITION SWITCH, GREEN "RUNNING ON BYPASS" PILOT LIGHT, AND OTHER CONTROLS REQUIRED FOR FULLY FUNCTION BYPASS STARTER.

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APPROVED BY:	MJR

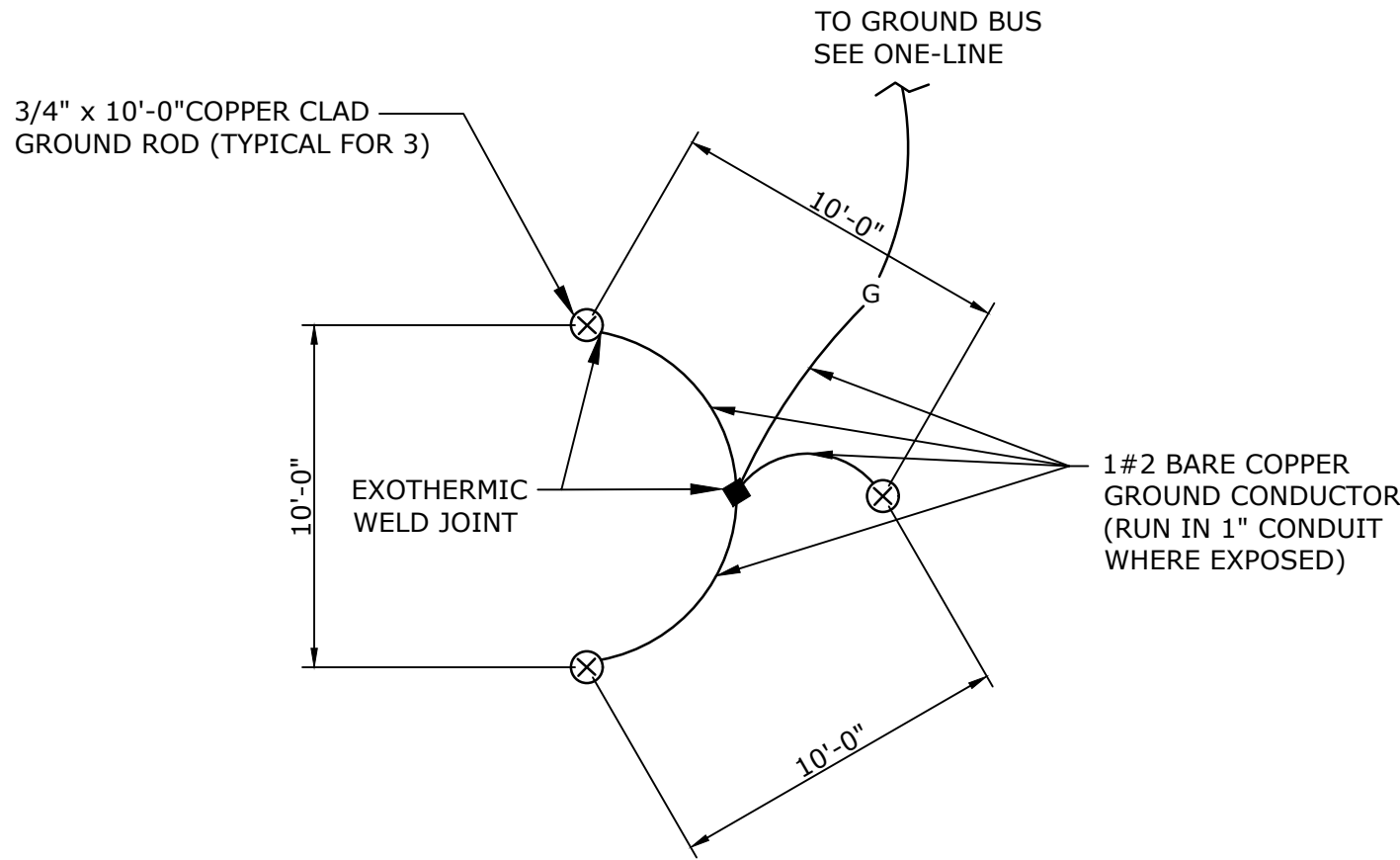
ELECTRICAL DETAILS-3

SCALE: NO SCALE

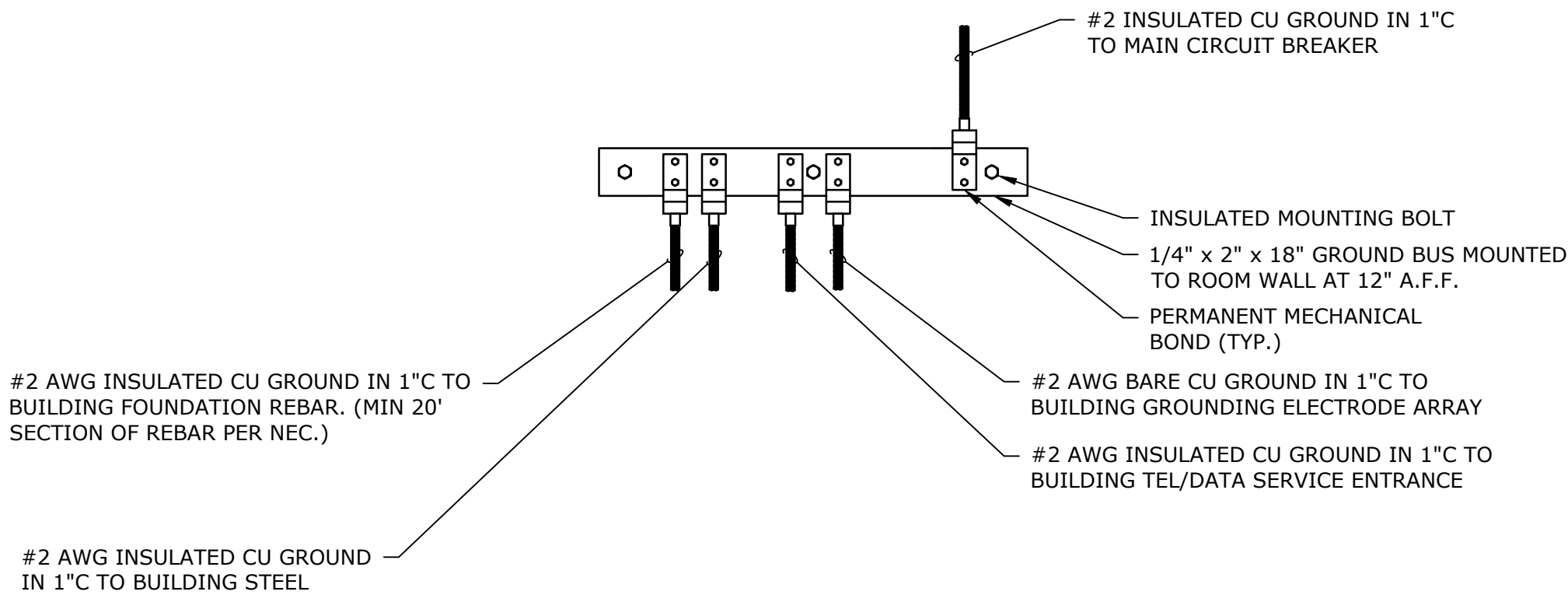
E-603

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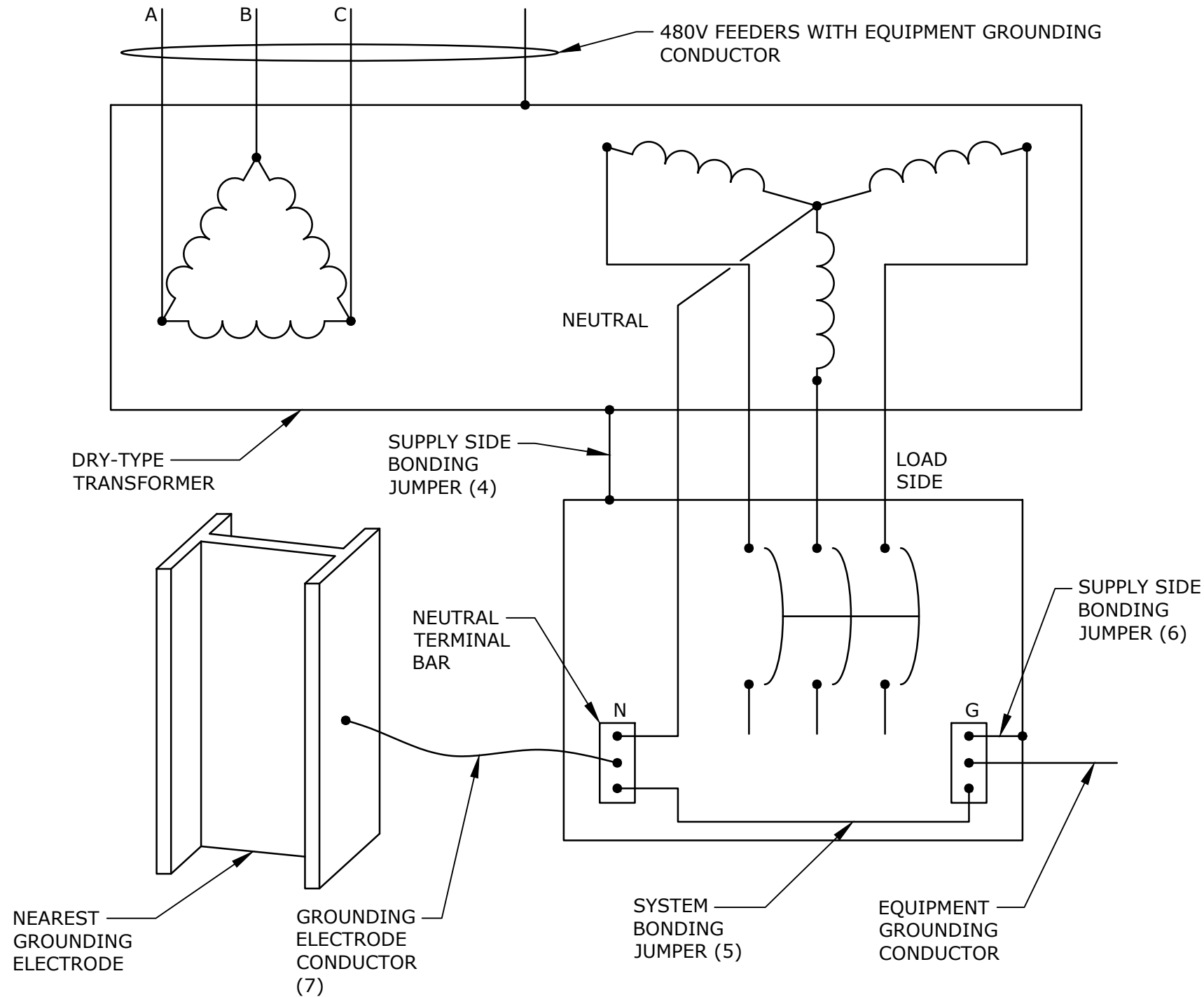
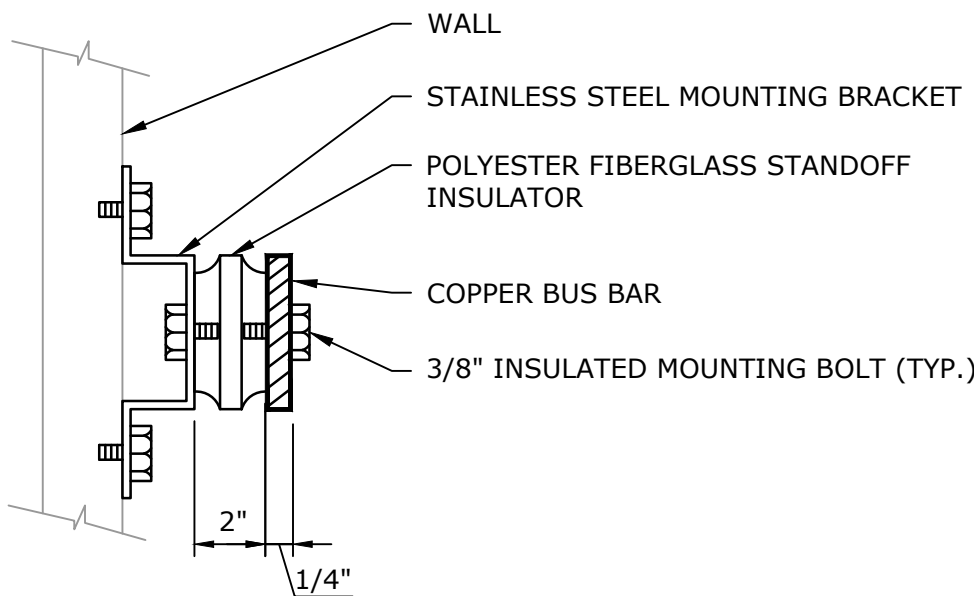
SEPARATELY DERIVED DRY TYPE TRANSFORMER SCHEDULE										
SIZE	KVA	480V AMPS	208V AMPS	480 VOLT PRIMARY MOCP	208 VOLT SECONDARY MOCP (3)	480 VOLT FEEDER (2)	120/208 VOLT FEEDER AND SUPPLY SIDE BONDING JUMPER (1)(2)(4)	SYSTEM BONDING JUMPER (1)(2)(5)	SUPPLY SIDE BONDING JUMPER (1)(2)(6)	GROUNDING ELECTRODE CONDUCTOR (1)(2)(7)
T1	9	11	25	15A-3P	35A-3P	3#12 + 1#12G in 3/4" C	4#8 + 1#8G in 3/4" C	1#8	1#8	1#8 in 3/4" C
T2	15	18	42	25A-3P	60A-3P	3#10 + 1#10G in 3/4" C	4#4 + 1#6G in 1-1/4" C	1#6	1#6	1#8 in 3/4" C



GROUNDING TRIAD - SINGLE SERVICE
NO SCALE



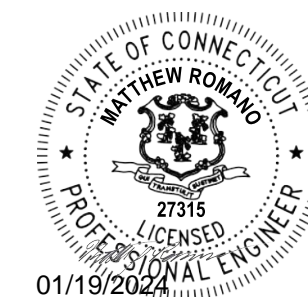
BUILDING ELECTRICAL GROUND BUS DETAIL



SEPARATELY DERIVED SYSTEM GROUNDING FOR DELTA - WYE TRANSFORMERS
NO SCALE

TRANSFORMER NOTES:

- SUPPLY SIDE BONDING JUMPER, SYSTEM BONDING JUMPER AND GROUNDING ELECTRODE CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.102. REFER TO DETAIL.
- ALL CONDUCTOR SIZES ARE FOR COPPER CONDUCTORS PER NEC TABLE 310.15(B)16.
- PROVIDE SECONDARY OVERCURRENT PROTECTION. SECONDARY OVERCURRENT PROTECTION SHALL BE LOCATED WITHIN TEN (10) FEET OF THE TRANSFORMER SECONDARY TERMINALS EITHER IN A PANELBOARD (MAIN BREAKER), AN INDIVIDUAL MOUNTED ENCLOSED CIRCUIT BREAKER, OR FUSED DISCONNECT.
- SUPPLY SIDE BONDING JUMPER INSTALLED IN FEEDER RACEWAY.
- SYSTEM BONDING JUMPER INSTALLED INTERNAL TO PANELBOARD, BREAKER ENCLOSURE OR FUSED DISCONNECT ENCLOSURE.
- SUPPLY SIDE BONDING JUMPER INSTALLED INTERNAL TO PANELBORAD, BREAKER ENCLOSURE OR FUSED DISCONNECT ENCLOSURE.
- GROUNDING ELECTRODE CONDUCTOR SHALL BE INSTALLED IN CONDUIT.
- BOND NEUTRAL AT PANEL.



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**Town Of
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**Exit 67 Sewer
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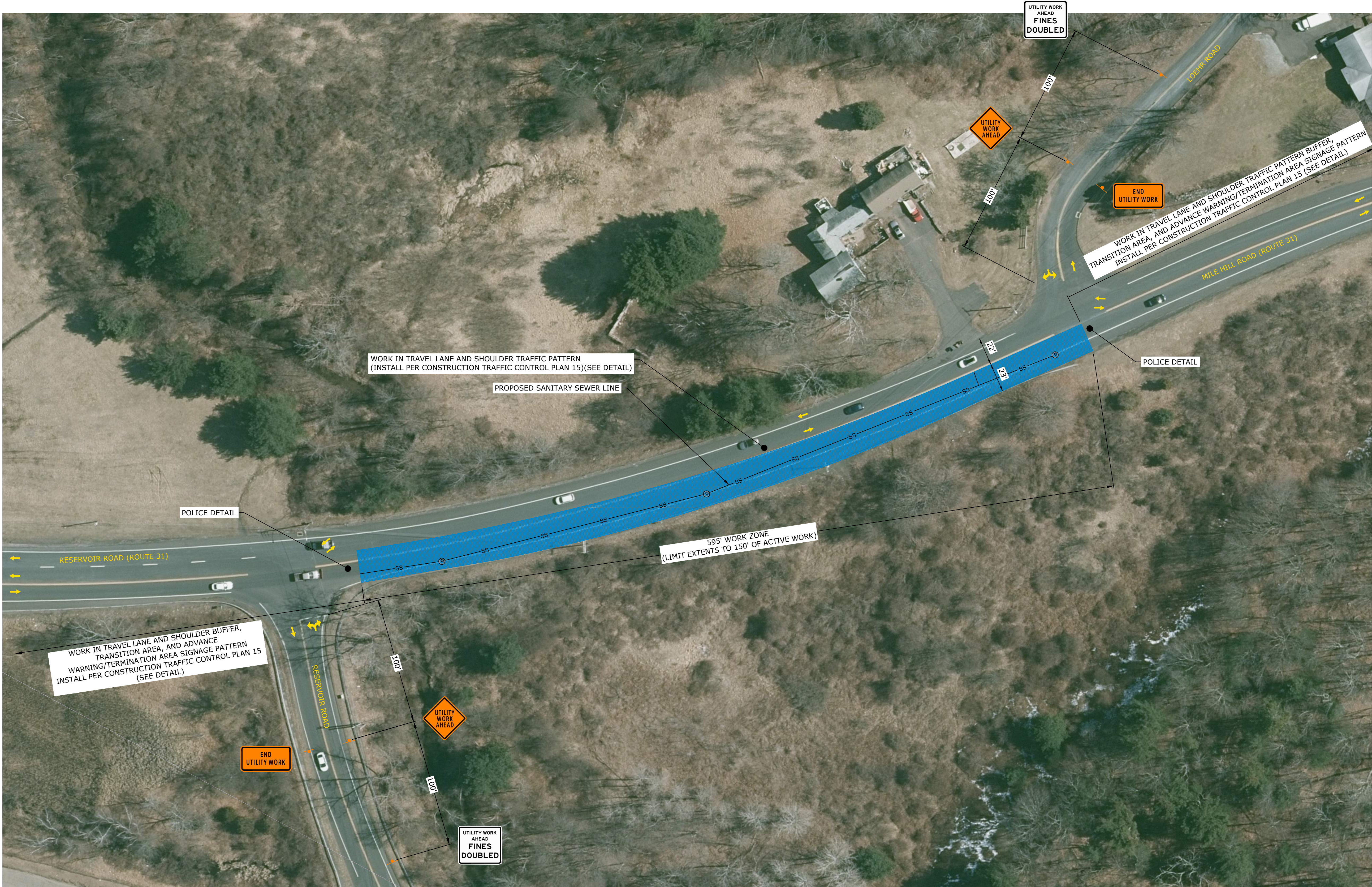
PROJECT NO:	V0037-017
DATE:	JANUARY 2024
FILE:	V0037-017-E-604.dwg
DRAWN BY:	SG
DESIGNED/CHECKED BY:	MJR
APPROVED BY:	MJR

ELECTRICAL DETAILS-4

SCALE: NO SCALE

E-604

Last Saved: 12/5/2023
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 1
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND



ACTIVE WORK ZONE



CONSTRUCTION SIGN



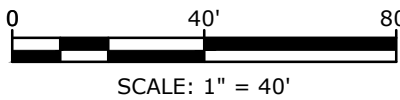
TRAFFIC FLOW ARROW

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Exit 67 Sewer
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MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 1

SCALE: 1" = 40'

T-001

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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 2
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND



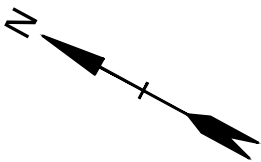
ACTIVE WORK ZONE



CONSTRUCTION SIGN



TRAFFIC FLOW ARROW

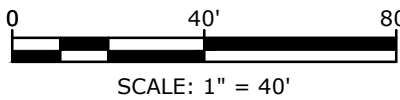


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DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 2

SCALE: 1" = 40'

T-002

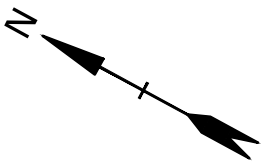
Last Saved: 12/5/2023
Plotted On: Dec 05, 2023 9:19am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 3
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- 42" TRAFFIC CONE
- TRAFFIC FLOW ARROW

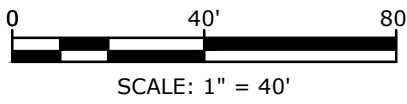


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DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 3

SCALE: 1" = 40'

T-003

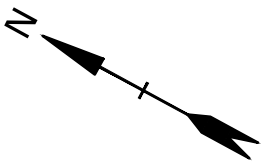
Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:19am By: TlWanser
Tighe & Bond: J:\V\0037-Vernon-WWTP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\0037-017-TTC.dwg



EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 4
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

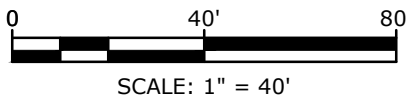
- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- 42" TRAFFIC CONE
- TRAFFIC FLOW ARROW



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PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 4

SCALE: 1" = 40'

T-004

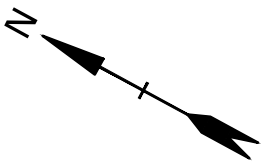
Last Saved: 12/5/2023
Plotted On: Dec 05, 2023 9:19am By: TlWanser
Tighe & Bond\JLV\0037\ Vernon\WTP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\0037-017-TTC.dwg



EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 5
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- TYPE III CONSTRUCTION BARRICADE
- TRAFFIC FLOW ARROW

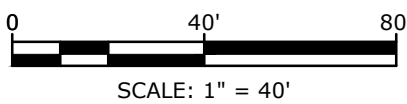


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DATE:	JANUARY 2024	
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DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 5

SCALE: 1" = 40'

T-005

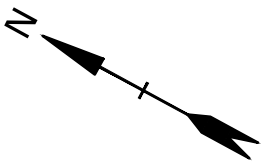
Last Saved: 12/5/2023
Plotted On: Dec 05, 2023 9:19am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 6
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- TYPE III CONSTRUCTION BARRICADE
- 42" TRAFFIC CONE
- TRAFFIC FLOW ARROW

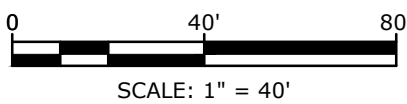


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DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 6

SCALE: 1" = 40'

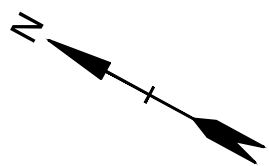
T-006

Last Saved: 12/9/2023 9:20am By: TlWanser
Plotted On: Dec 05, 2023 9:20am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 7
(MON-FRI, 9AM - 4PM)

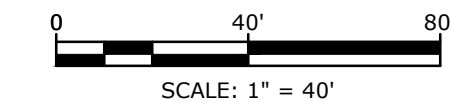
TEMPORARY TRAFFIC CONTROL LEGEND		
	ACTIVE WORK ZONE	
	CONSTRUCTION SIGN	
	42" TRAFFIC CONE	
	TRAFFIC FLOW ARROW	



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DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

**TEMPORARY TRAFFIC
CONTROL PLAN 7**

SCALE: 1" = 40'

T-007

Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:20am By: TlWanser
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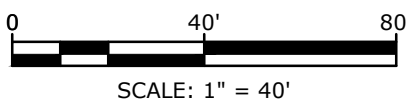
EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 8
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND		
	ACTIVE WORK ZONE	
	CONSTRUCTION SIGN	
	TYPE III CONSTRUCTION BARRICADE	
	42" TRAFFIC CONE	
	TRAFFIC FLOW ARROW	

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PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

**TEMPORARY TRAFFIC
CONTROL PLAN 8**

SCALE: 1" = 40'

T-008

Last Saved: 12/5/2023
Plotted On: Dec 05, 2023 9:20am By: TlWanser
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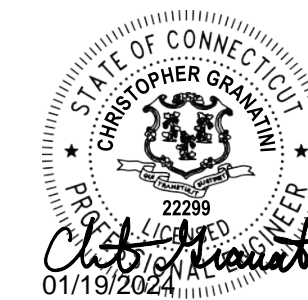
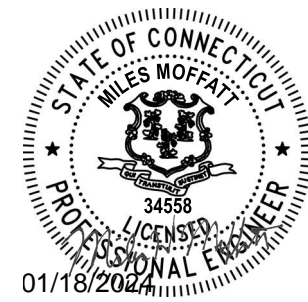
NOTE:

- SEE T-021 FOR TRUCK DETOUR PLAN

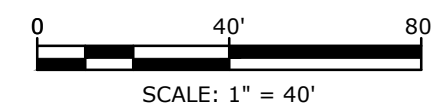
EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 9
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- TYPE III CONSTRUCTION BARRICADE
- 42" TRAFFIC CONE
- TRAFFIC FLOW ARROW



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PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

**TEMPORARY TRAFFIC
CONTROL PLAN 9**

SCALE: 1" = 40'

T-009



0 40' 80'

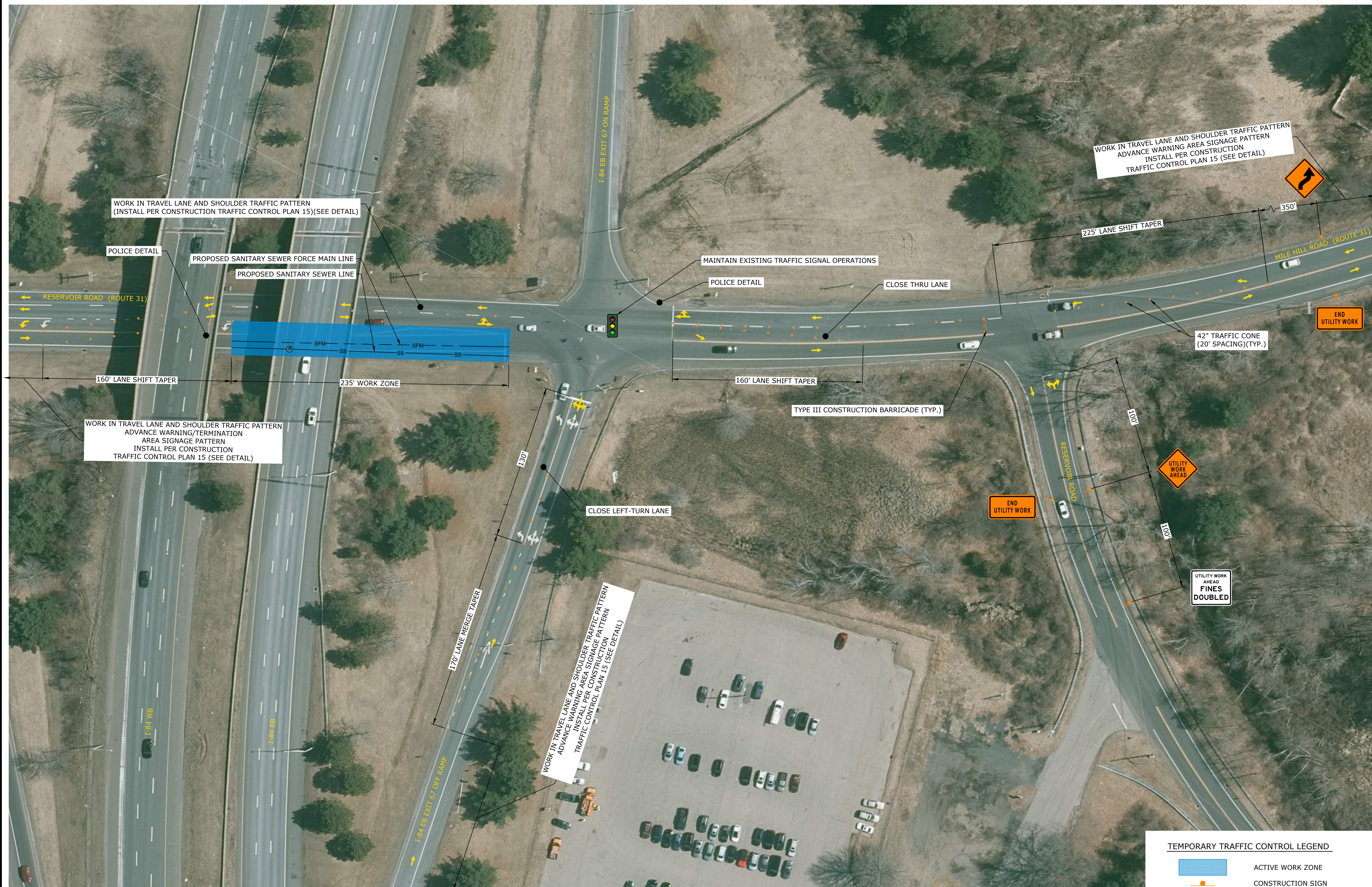
SCALE: 1" = 40'

Vernon, CT

[illegible]

SCALE: 1" = 40'

T-010



EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 10
(MON-FRI, 9AM - 4PM)

Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:21am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 11
(MON-FRI, 9AM - 4PM)

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STATE OF CONNECTICUT

CRISTOPHER GRANT

34558

PROFESSIONAL ENGINEER

01/18/2024

STATE OF CONNECTICUT

CRISTOPHER GRANT

22299

PROFESSIONAL ENGINEER

01/19/2024

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040'80'

SCALE: 1" = 40'

Town Of
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Vernon, CT

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		PROJECT NO: V0037-017
		DATE: JANUARY 2024
		FILE: V0037-017-TTC.dwg
		DRAWN BY: KAH/ABW
		DESIGNED/CHECKED BY: TJW
		APPROVED BY: COG

TEMPORARY TRAFFIC CONTROL PLAN 11

SCALE:1" = 40'

T-011

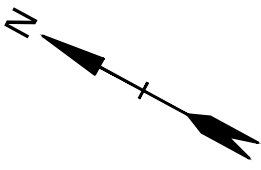
Last Saved: 12/9/2023 9:21am By: TlWanser
Plotted On: Dec 05, 2023 9:21am By: TlWanser
Tighe & Bond: J:\V0037 - Vernon - Exit 67 Sewer Extension - Design\Drawings\AutoCAD\Sheet\0037-017-TTC.dwg



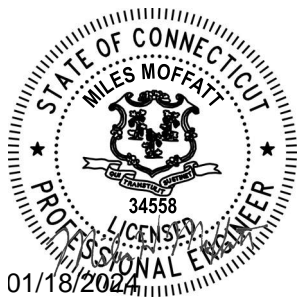
EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 12
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

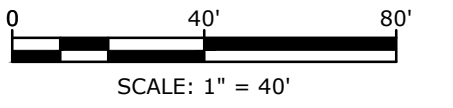
- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- 42" TRAFFIC CONE
- TRAFFIC FLOW ARROW



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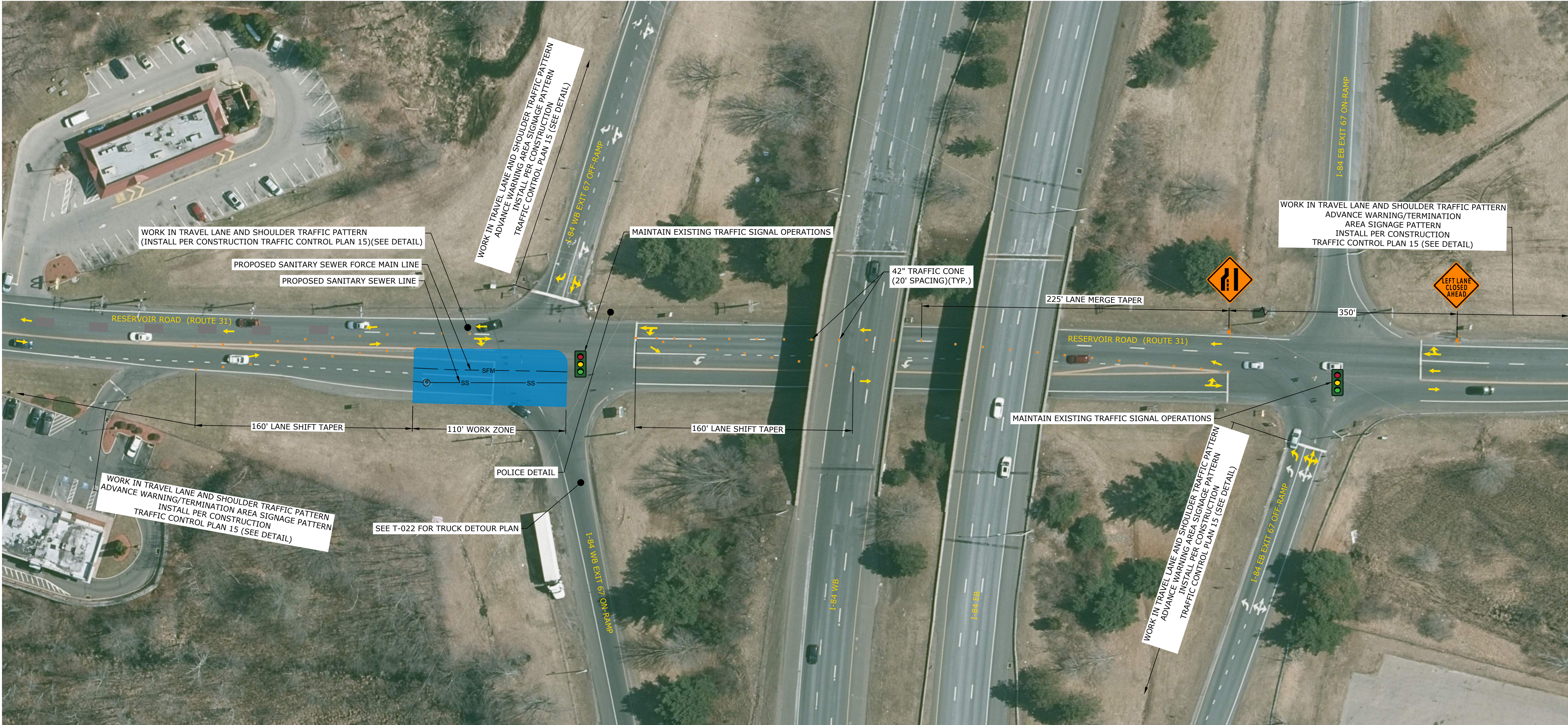
MARK	DATE	DESCRIPTION
PROJECT NO:		V0037-017
DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 12

SCALE: 1" = 40'

T-012

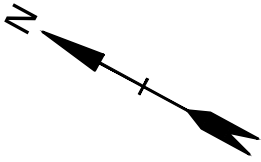
Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:21am By: TlWanser
Tighe & Bond\J\VV0037-Vernon\WTP017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\W0037-017-TTC.dwg



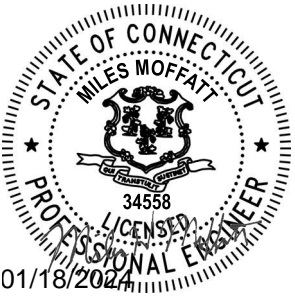
NOTE:
1. SEE T-022 FOR TRUCK DETOUR PLAN

EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 13
(MON-FRI, 9AM - 4PM)

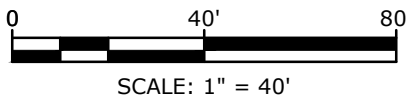
TEMPORARY TRAFFIC CONTROL LEGEND		
	ACTIVE WORK ZONE	
	CONSTRUCTION SIGN	
	42" TRAFFIC CONE	
	TRAFFIC FLOW ARROW	



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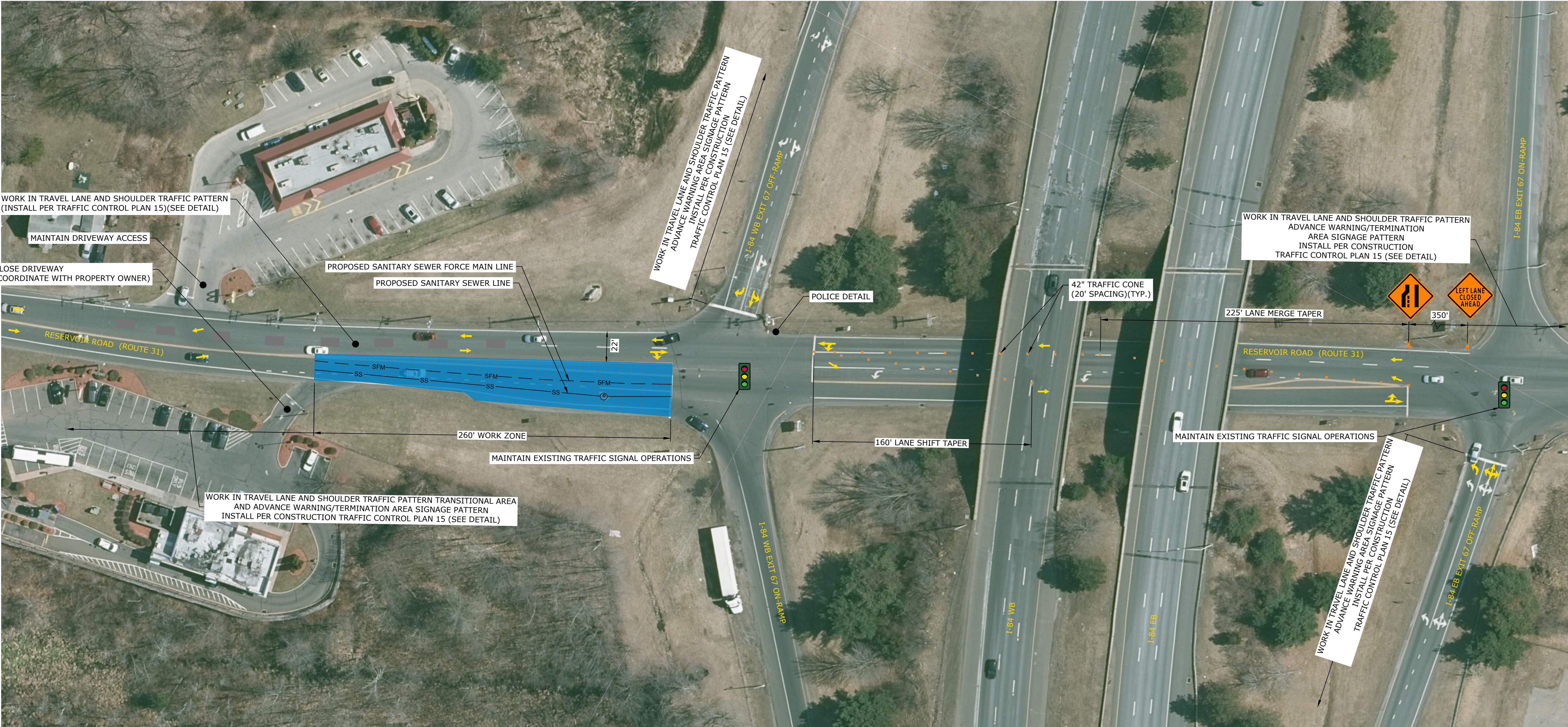
MARK	DATE	DESCRIPTION
PROJECT NO:		V0037-017
DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 13

SCALE: 1" = 40'

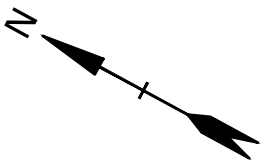
T-013

Last Saved: 12/9/2023 9:21am By: TlWanser
Plotted On: Dec 05, 2023 9:21am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 14
(MON-FRI, 9AM - 4PM)

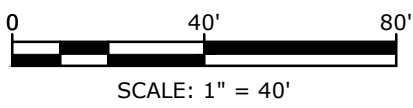
TEMPORARY TRAFFIC CONTROL LEGEND		
	ACTIVE WORK ZONE	
	CONSTRUCTION SIGN	
	42" TRAFFIC CONE	
	TRAFFIC FLOW ARROW	



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DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 14

SCALE: 1" = 40'

T-014

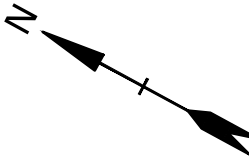
Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:22am By: TlWanser
Tighe & Bond\JLV\0037 Vernon WWTP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\0037-017-TTC.dwg



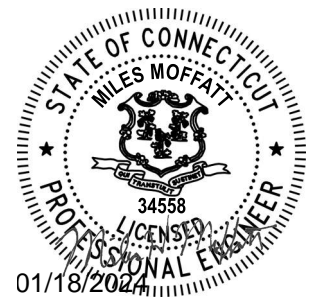
EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 15
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

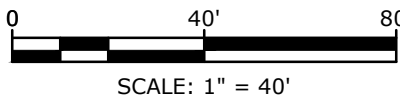
- ACTIVE WORK ZONE
- TRAFFIC FLOW ARROW



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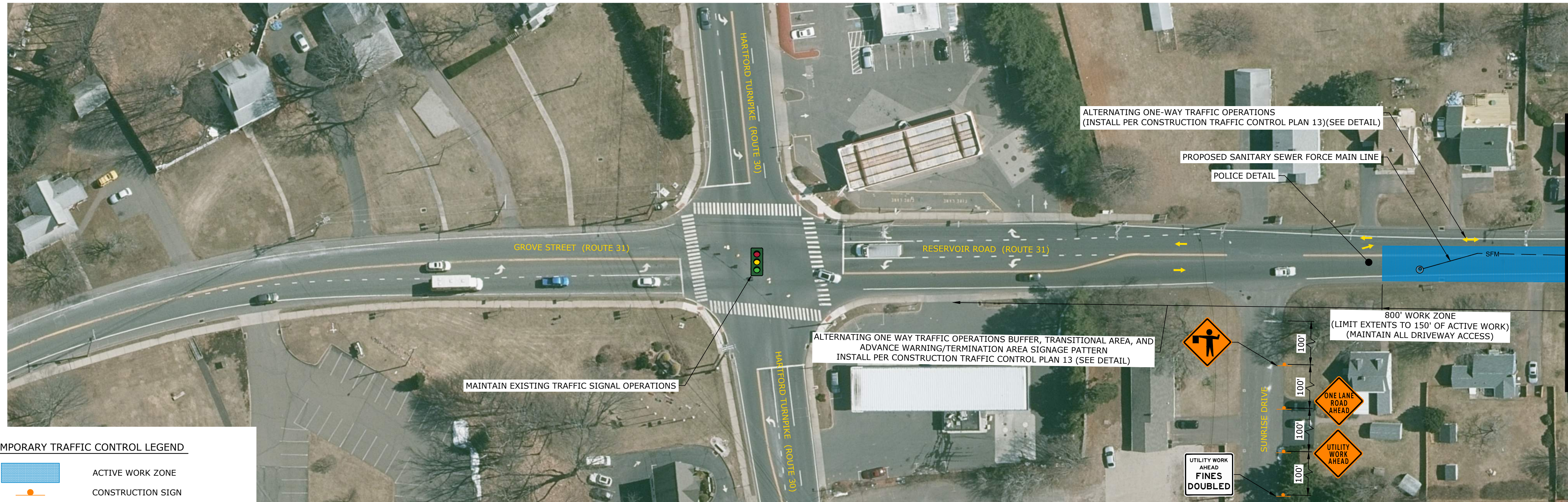
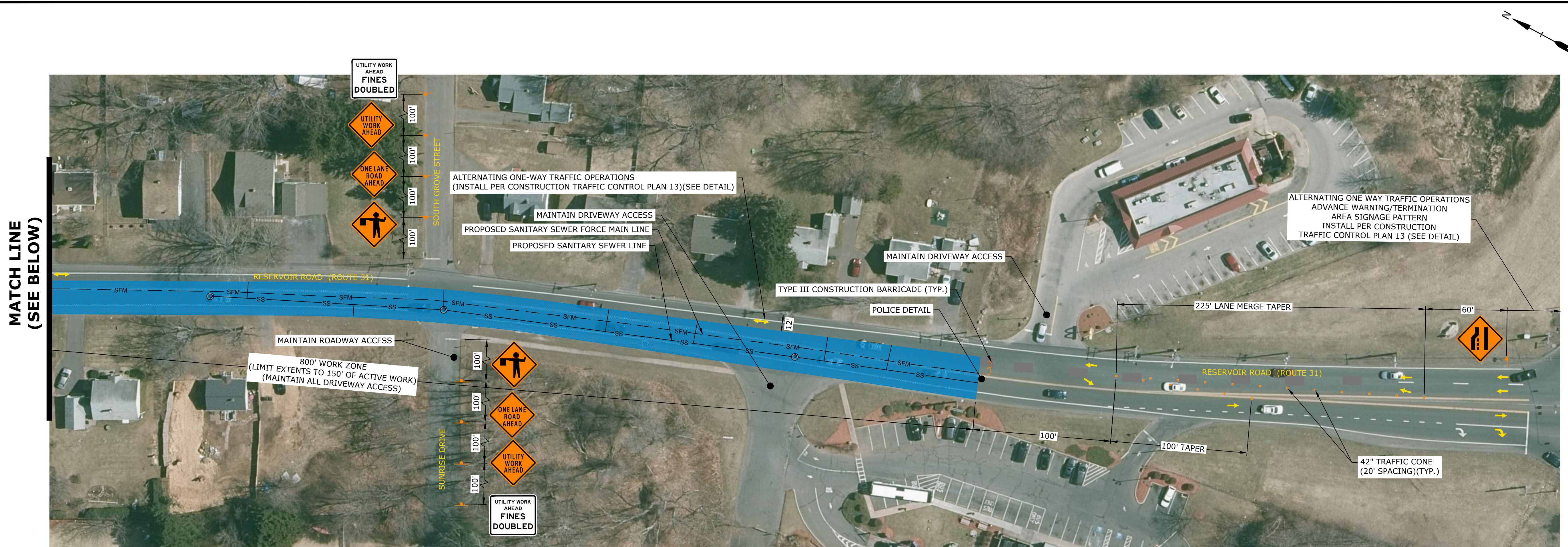
MARK	DATE	DESCRIPTION
PROJECT NO:		V0037-017
DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 15

SCALE: 1" = 40'

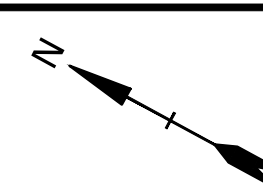
T-015

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TEMPORARY TRAFFIC CONTROL LEGEND	
	ACTIVE WORK ZONE
	CONSTRUCTION SIGN
	TYPE III CONSTRUCTION BARRICADE
	42" TRAFFIC CONE
	TRAFFIC FLOW ARROW

EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 16
(MON-FRI, 9AM - 4PM)

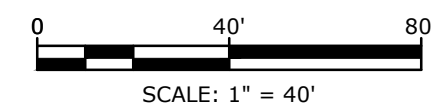


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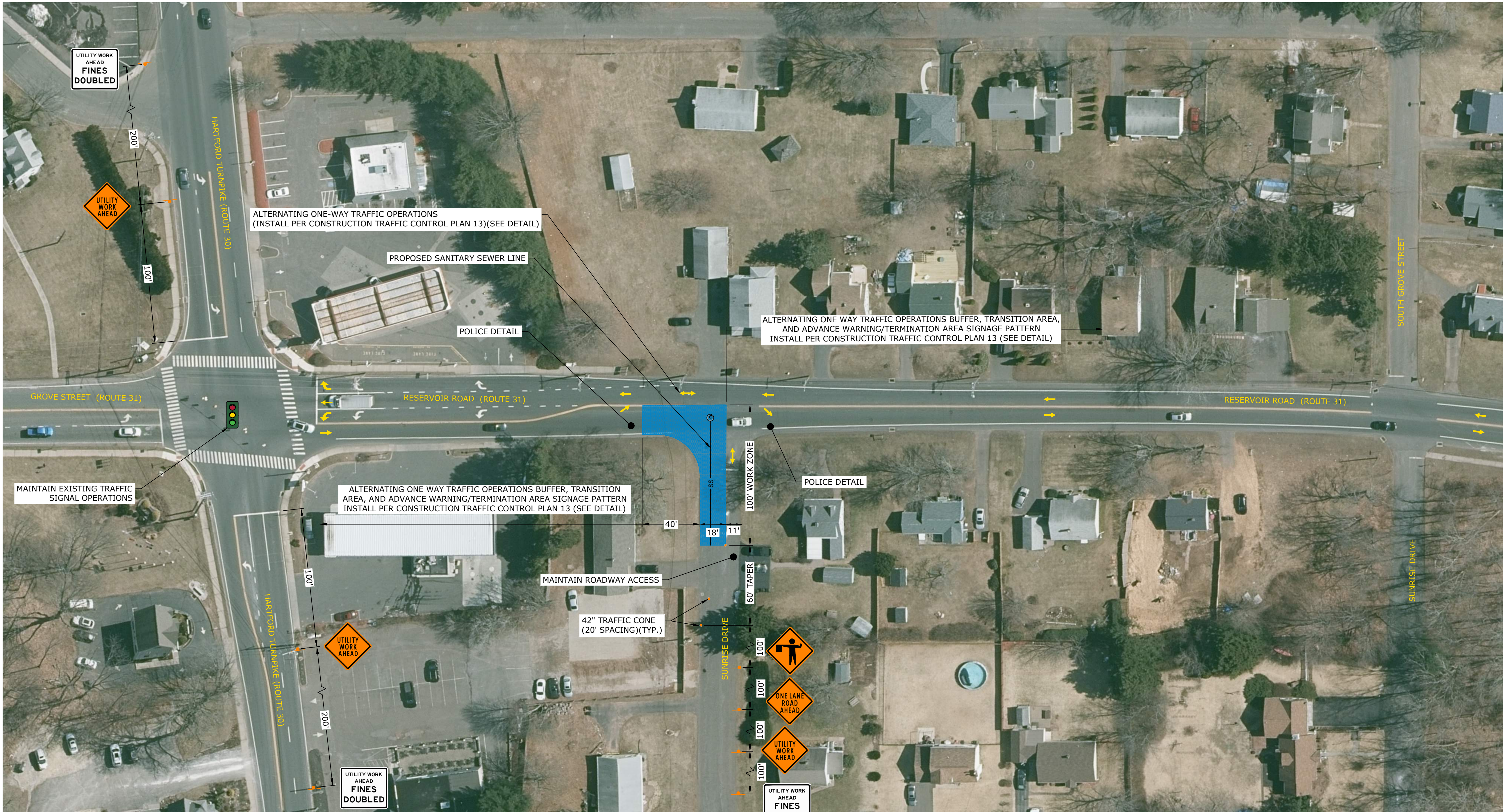
MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

**TEMPORARY TRAFFIC
CONTROL PLAN 16**

SCALE: 1" = 40'

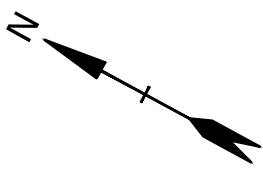
T-016

Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:22am By: TlWamser
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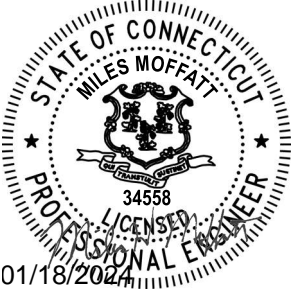


EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 17
(MON-FRI, 9AM - 4PM)

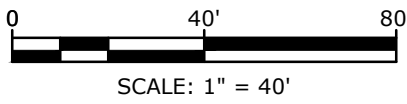
TEMPORARY TRAFFIC CONTROL LEGEND		
	ACTIVE WORK ZONE	
	CONSTRUCTION SIGN	
	42" TRAFFIC CONE	
	TRAFFIC FLOW ARROW	



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APPROVED BY:		COG

TEMPORARY TRAFFIC
CONTROL PLAN 17

SCALE: 1" = 40'

T-017



0 40' 80'

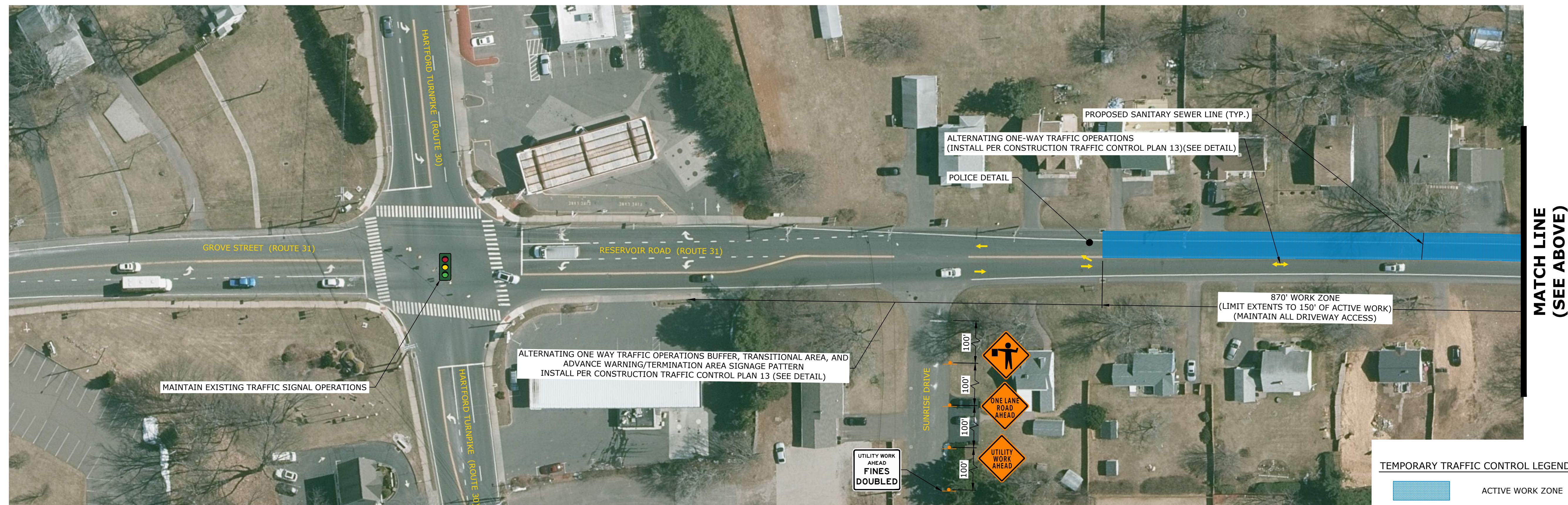
SCALE: 1" = 40'

Vernon, CT

[illegible]

SCALE: 1" = 40'

T-018



EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 18
(MON-FRI, 9AM - 4PM)

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Last Saved: 12/9/2023
Plotted On: Dec 05, 2023 9:23am By: TlWanser
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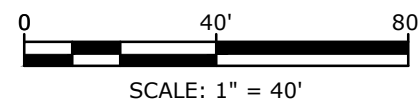
EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 19
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- ACTIVE WORK ZONE
- CONSTRUCTION SIGN
- TYPE III CONSTRUCTION BARRICADE
- 42" TRAFFIC CONE
- TEMPORARY SIDEWALK RAMP
- TEMPORARY CONSTRUCTION FENCE
- TRAFFIC FLOW ARROW
- PEDESTRIAN DETOUR PATH



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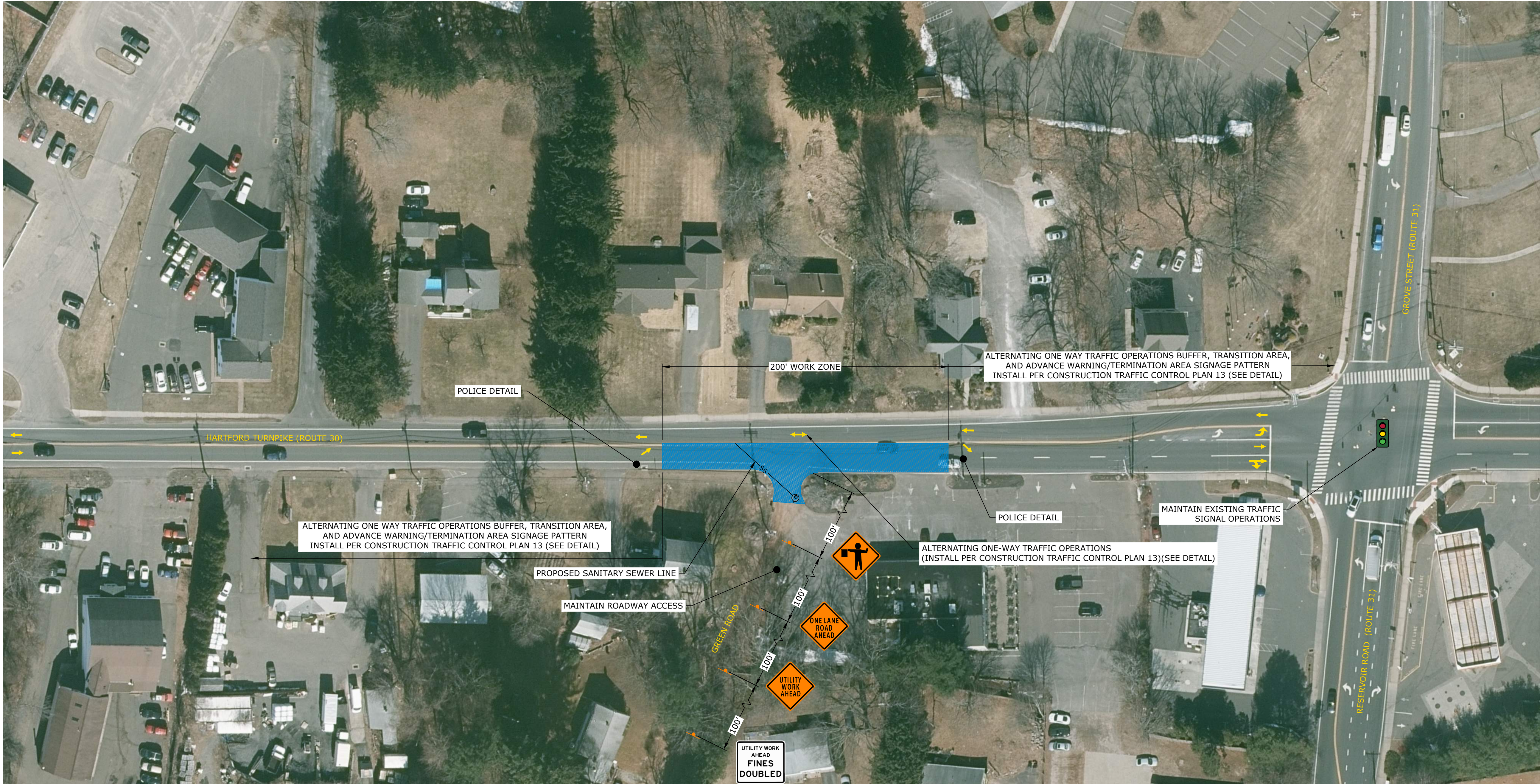
MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 19

SCALE: 1" = 40'

T-019

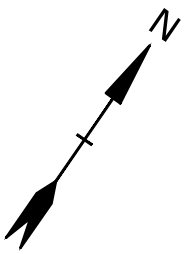
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Plotted On: Dec 05, 2023 9:23am By: TlWanser
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EXIT 67 SEWER EXTENSION TEMPORARY TRAFFIC CONTROL PLAN - PHASE 20
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

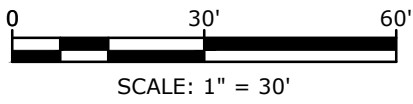
	ACTIVE WORK ZONE
	CONSTRUCTION SIGN
	TRAFFIC FLOW ARROW



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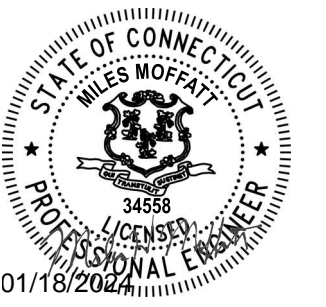
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MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
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APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN 20

SCALE: 1" = 40'

T-020



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Exit 67 Sewer Extension

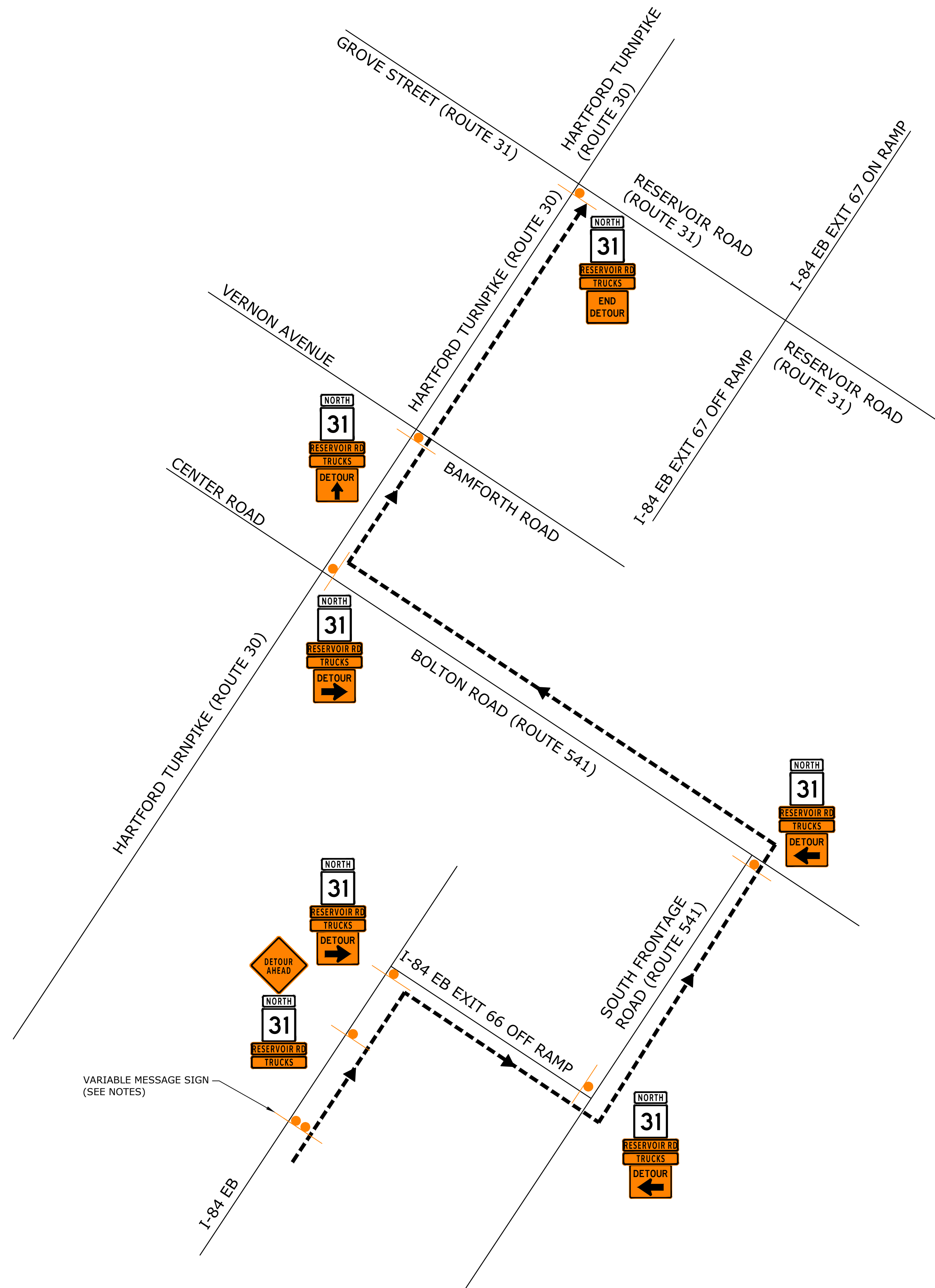
Vernon, CT

MARK	DATE	DESCRIPTION
PROJECT NO:		V0037-017
DATE:		JANUARY 2024
FILE:		V0037-017-TTC.dwg
DRAWN BY:		KAH/ABW
DESIGNED/CHECKED BY:		TJW
APPROVED BY:		COG

TEMPORARY TRAFFIC CONTROL PLAN TRUCK DETOUR 1

SCALE: NO SCALE

T-021



PHASE 9: I-84 EB TO RESERVOIR ROAD (ROUTE 31) TRUCK DETOUR
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND



CONSTRUCTION SIGN



TRUCK DETOUR ROUTE



VARIABLE MESSAGE SIGN

VARIABLE MESSAGE SIGN NOTES:

1. FOR DURATION OF ACTIVE WORK DISPLAY:

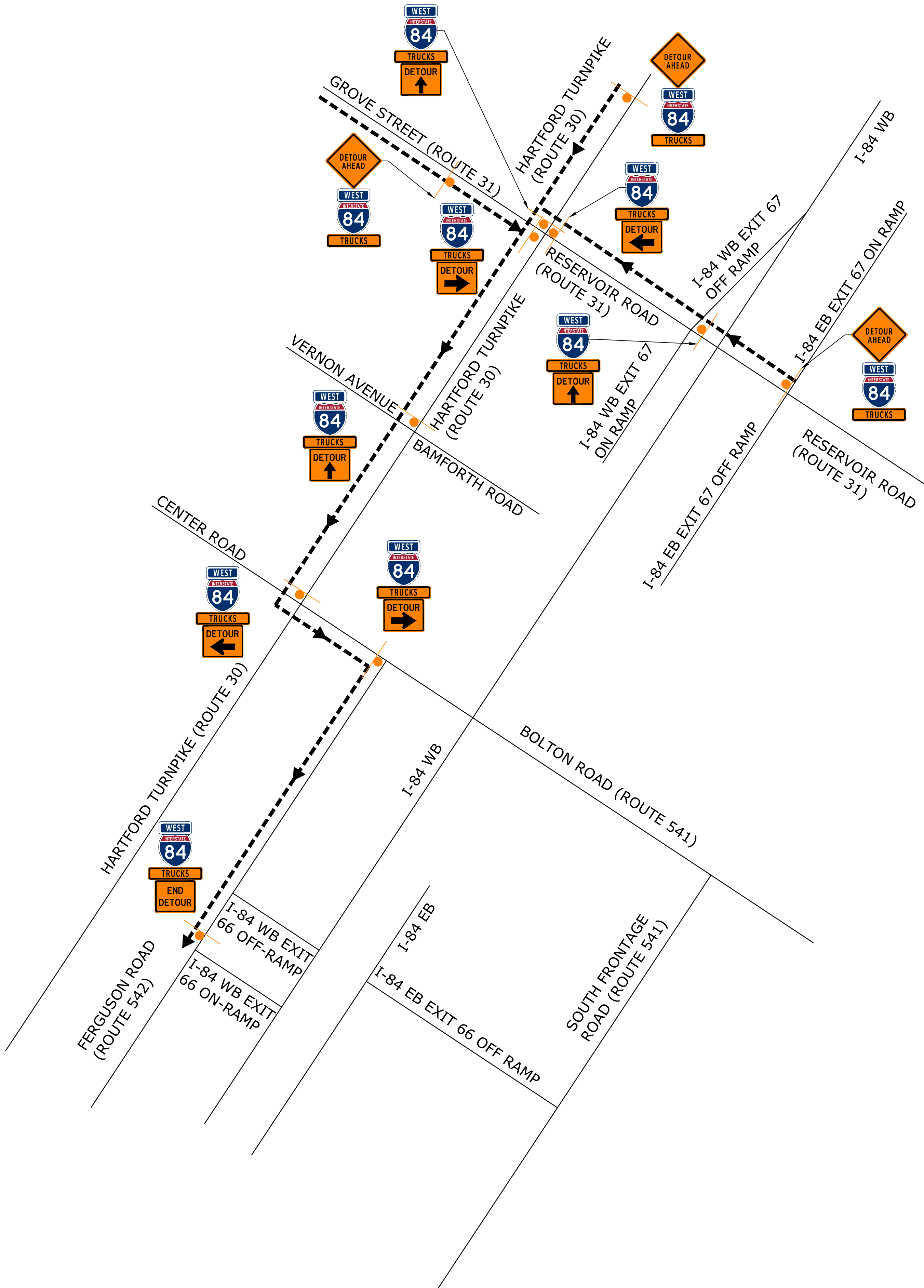


DISPLAY 1



DISPLAY 2

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PHASE 13: RESERVOIR ROAD/GROVE STREET (ROUTE 31) AND HARTFORD TURNPIKE (ROUTE 30) TO I-84 WB TRUCK DETOUR
(MON-FRI, 9AM - 4PM)

TEMPORARY TRAFFIC CONTROL LEGEND

- CONSTRUCTION SIGN
- TRUCK DETOUR ROUTE



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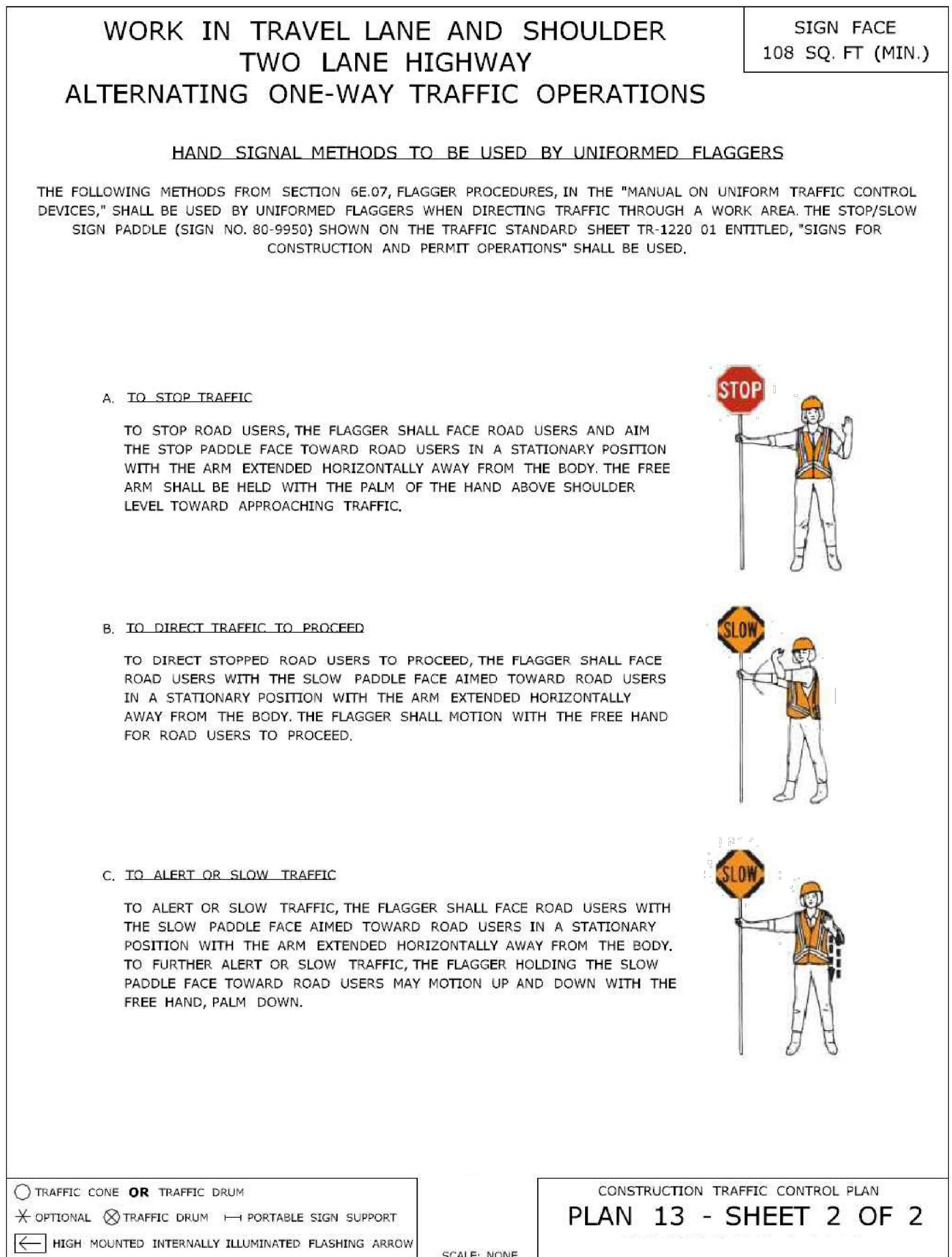
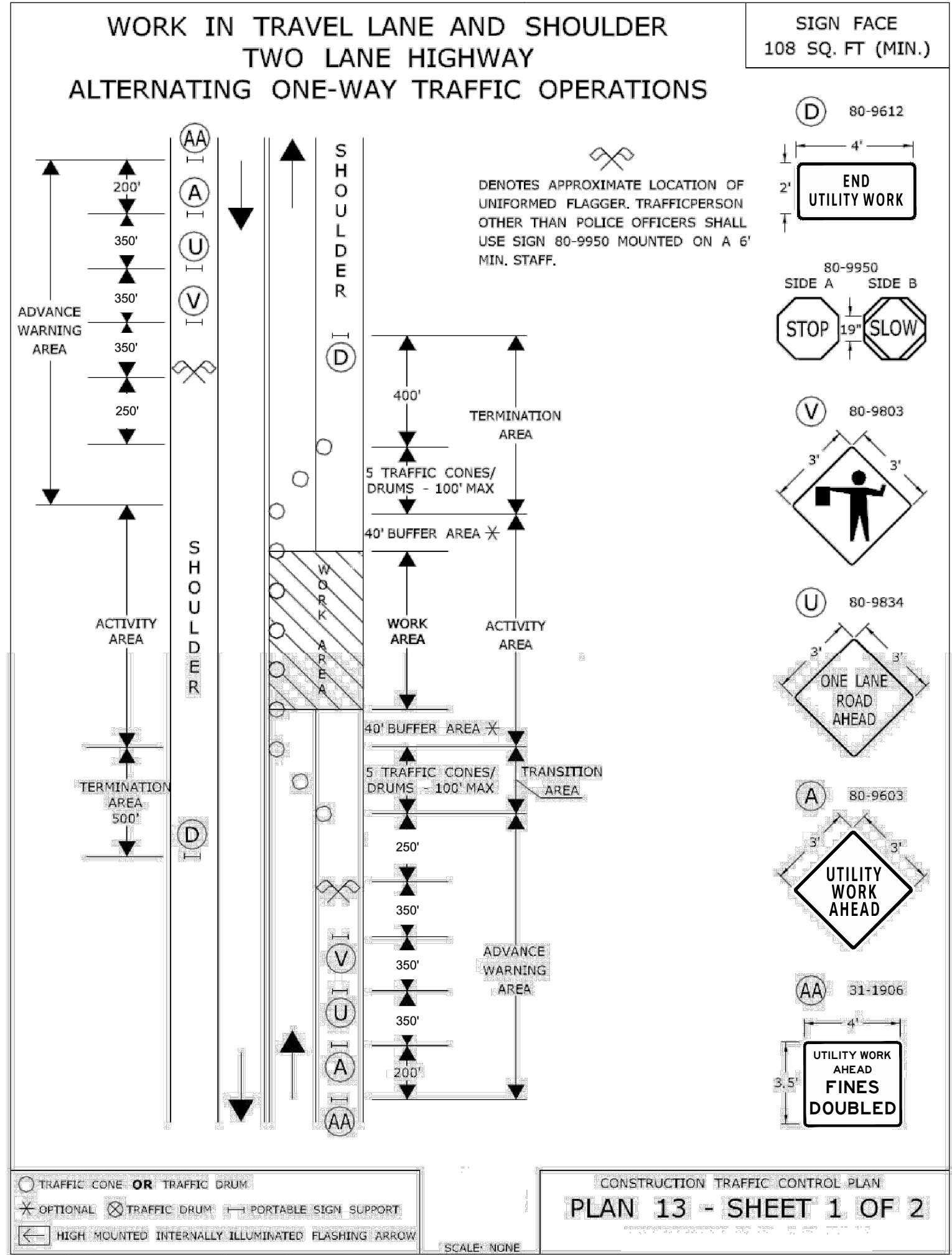
MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROL PLAN TRUCK
DETOUR 2

SCALE: NO SCALE

T-022

Last Saved: 12/5/2023
Plotted On: Dec 05, 2023 9:23am By: TlWanser
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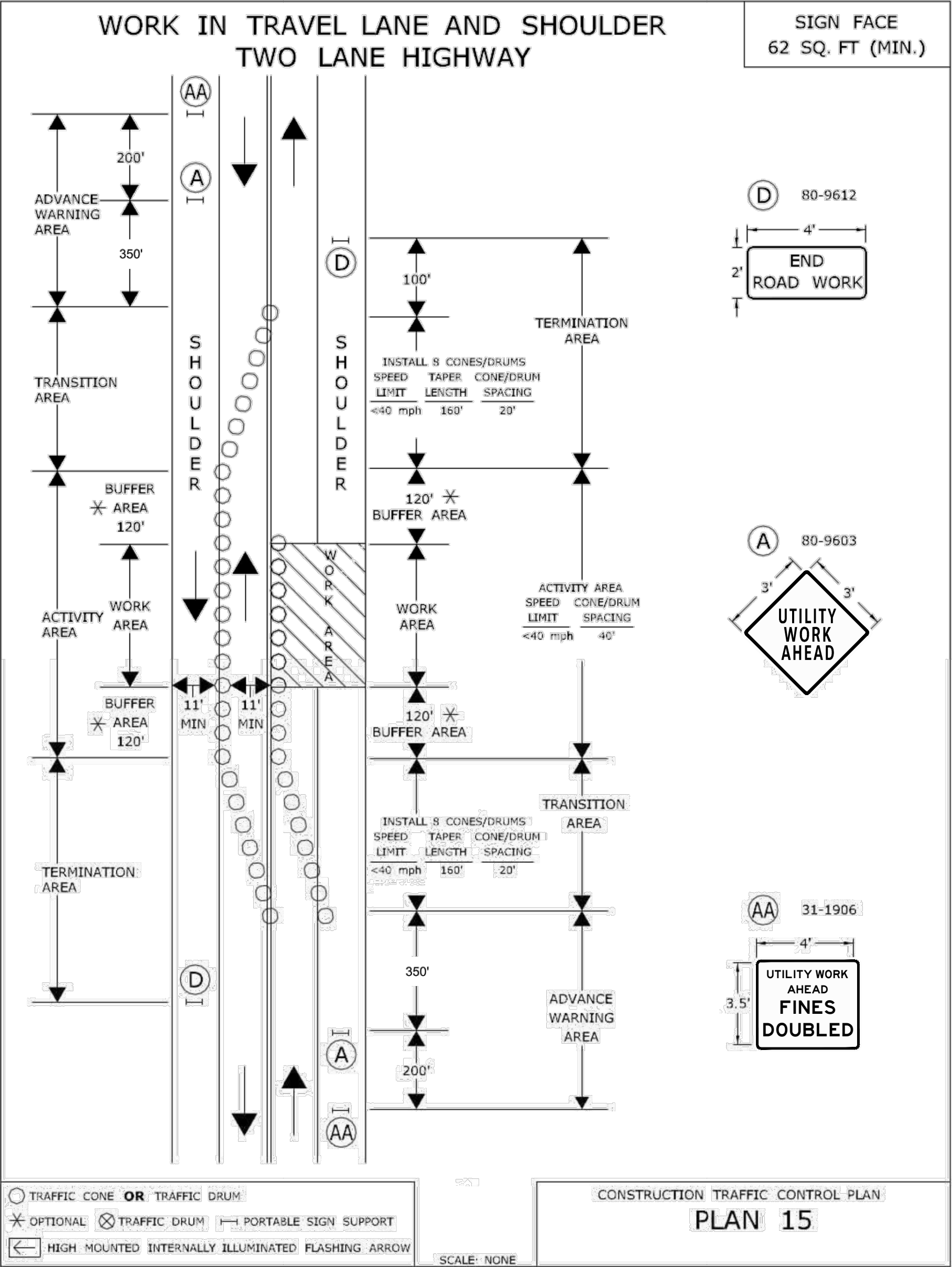
MARK	DATE	DESCRIPTION
PROJECT NO: V0037-017		
DATE: JANUARY 2024		
FILE: V0037-017-TTC.dwg		
DRAWN BY: KAH/ABW		
DESIGNED/CHECKED BY: TJW		
APPROVED BY: COG		

TEMPORARY TRAFFIC
CONTROLS DETAIL 1

SCALE: NO SCALE

T-023

Last Saved: 12/9/2023
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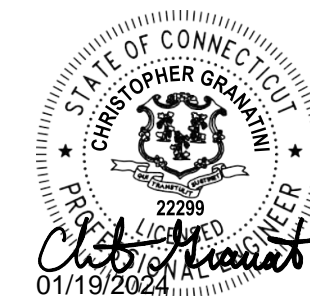
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MARK	DATE	DESCRIPTION
PROJECT NO:	V0037-017	
DATE:	JANUARY 2024	
FILE:	V0037-017-TTC.dwg	
DRAWN BY:	KAH/ABW	
DESIGNED/CHECKED BY:	TJW	
APPROVED BY:	COG	

TEMPORARY TRAFFIC
CONTROLS DETAIL 2

SCALE: NO SCALE

T-024



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[illegible]

SCALE: NO SCALE

T-025



NO SCALE



NO SCALE




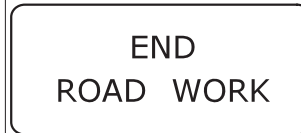





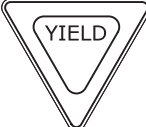

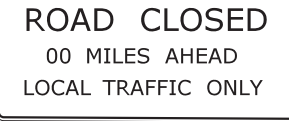
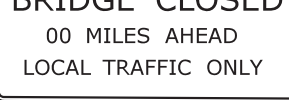


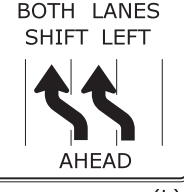

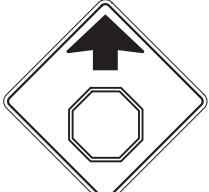
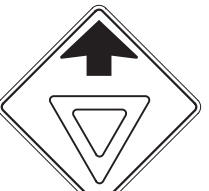
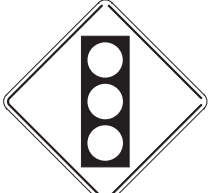


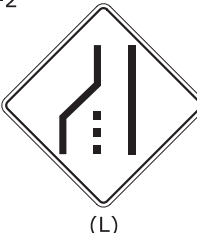
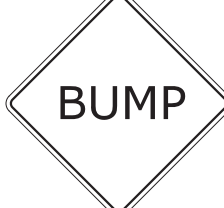






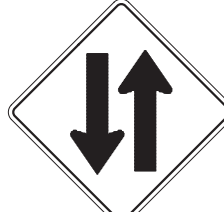
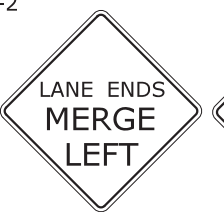

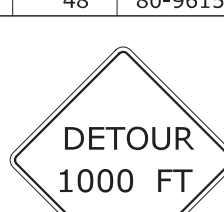


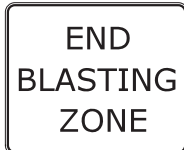
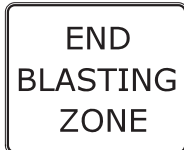
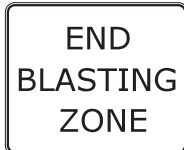
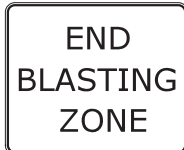
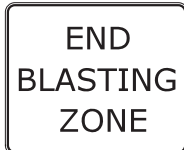
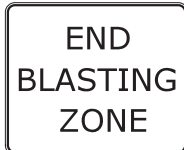
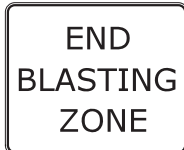
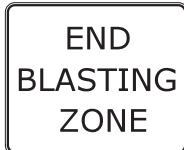
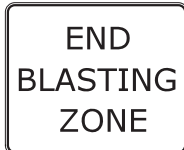
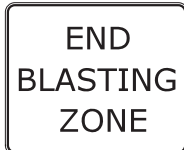
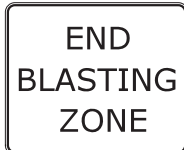
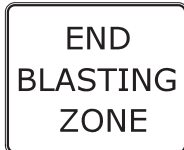
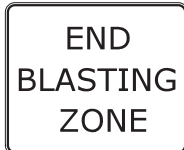
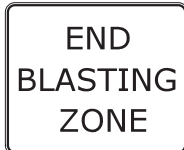
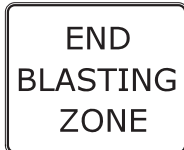
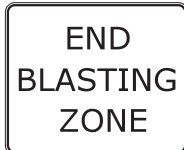
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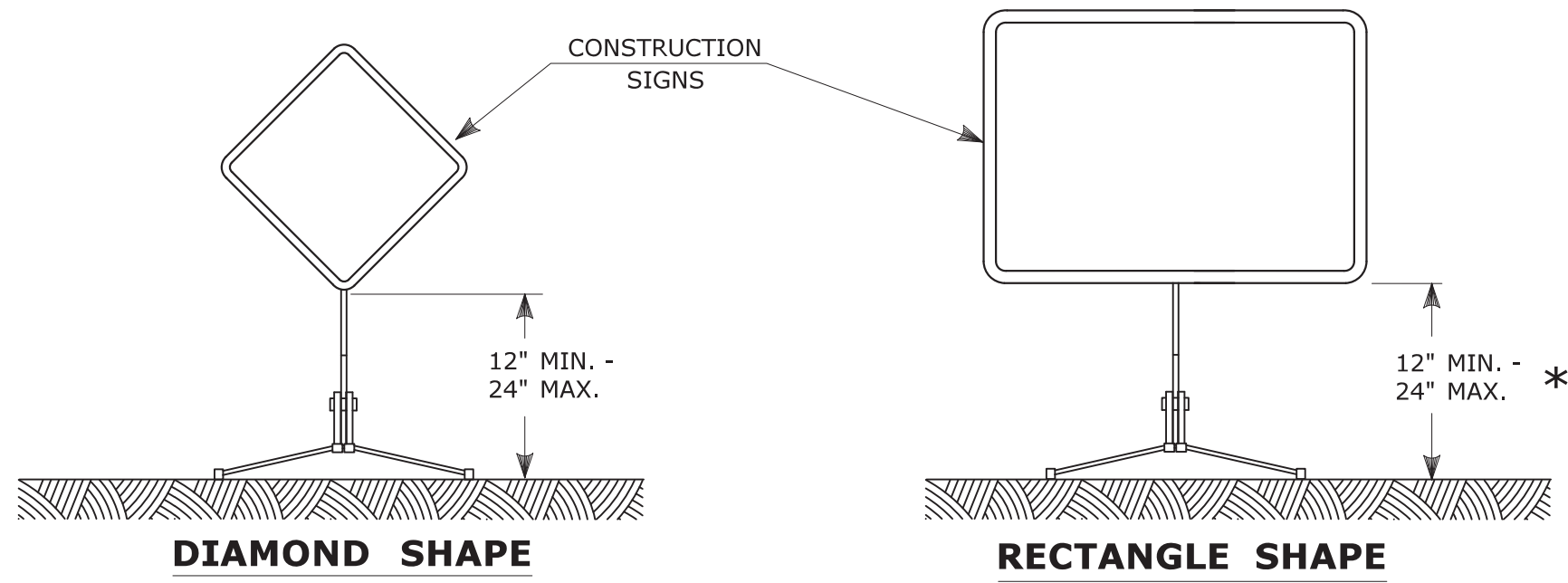
TEMPORARY FENCE NOTES:

1. MAINTAIN AND PROTECT PEDESTRIAN TRAFFIC THROUGH THE WORK AREA. MAINTAIN PEDESTRIAN ROUTES, CROSSWALKS, AND CROSSINGS AS SHOWN.
2. CONSTRUCTION SIGN SHEETING SHALL BE FLUORESCENT ORANGE WITH BLACK LETTERING AND SYMBOLS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. SIGN SHEETING MATERIAL SHALL MEET THE MINIMUM RETROREFLECTIVITY REQUIREMENTS AS DEFINED IN PART 2 OF THE 2009 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. REPLACE SIGNS AS DIRECTED TO MAINTAIN MINIMUM REQUIREMENTS.
4. CONSTRUCTION SIGNS MUST BE PLACED ON POSTS IN GRASSY AREAS OR ON PORTABLE SIGN SUPPORTS (SEE CTDOT TRAFFIC STANDARD SHEET TR-1220_02)
5. COORDINATE THE LOCATION OF CONSTRUCTION SIGNS WITH OTHER ACTIVE CONSTRUCTION ACTIVITY. DO NOT INSTALL DUPLICATE SIGNS WHERE EXISTING CONSTRUCTION SIGNS CURRENTLY EXIST.
6. CONSTRUCTION SIGN DIMENSIONS SHALL BE IN ACCORDANCE WITH CTDOT TRAFFIC STANDARD SHEET TR-1220_01.
7. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
8. NO SIGNS OR PERMANENT PAVEMENT MARKINGS SHALL BE REMOVED.
9. MAINTAIN SIGNAGE APPROPRIATE FOR THE CURRENT TRAFFIC PATTERN AT ALL TIMES. SIGNS IN CONFLICT WITH THE EXISTING TRAFFIC PATTERN SHALL BE COVERED OR REMOVED. NO SIGNAGE SHALL BE PLACED THAT OBSTRUCTS EXISTING SIGNAGE, EXCEPT WHERE THE NEW SIGN INFORMATION SUPERSEDES THE EXISTING SIGNAGE AND IS REQUIRED TO ACCOMMODATE CONSTRUCTION ACTIVITIES.
10. ALL "UTILITY WORK AHEAD" SIGNS SHALL BE DISPLAYED AT ALL TIMES THROUGHOUT THE DURATION OF CONSTRUCTION.
11. TRAFFIC FLOW ARROWS SHOWN ON THE PLAN ARE ONLY INTENDED TO INDICATE LOCATIONS OF TRAVEL LANES AND ARE NOT TO BE INSTALLED AS PAVEMENT MARKINGS.
12. COORDINATE THE WORK WITH ADJACENT PROPERTY OWNERS. MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES UNLESS OTHER ACCOMMODATIONS ARE MADE WITH PROPERTY OWNERS IN ADVANCE OF THE WORK.

1. FOR APPLICATIONS WHERE TEMPORARY CONSTRUCTION FENCE WILL BE RELOCATED AT THE BEGINNING AND END OF EACH WORK PERIOD, THE CONTRACTOR MAY USE MOVABLE TEMPORARY FENCE SECTIONS.
2. ALL MOVABLE TEMPORARY FENCE SECTIONS SHALL BE COVERED WITH YALE BLUE FENCE FABRIC.
3. MOVABLE FENCE SECTIONS SHALL BE SECURED WITH TWO 50 LB SAND BAGS AT EACH END OF THE FENCE SECTION.

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Title & Bond: \\V:\V0037 Vernon WWTP\017 - Exit 67 Sewer Extension Design\Drawings\AutoCAD\Sheet\V0037-01 7-TTC.dwg

E5 - SERIES					G20 - SERIES					M4 - SERIES					R1 - SERIES					R9 & R11 - SERIES					W1 - SERIES					W3 - SERIES																																																																																																																																																																																																																																																																					
<div>E5-1</div> <div></div> <div>COPY & BORDER - WHITE BACKGROUND - GREEN</div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>51-6147</td><td>2</td></tr></table>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	51-6147	2	<div>G20-2a</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>8.0</td><td>48X24</td><td>80-9612</td><td>2</td></tr></table></div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9712</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	8.0	48X24	80-9612	2	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9712	2	<div>M4-8</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.0</td><td>24X12</td><td>80-9707</td><td>1</td></tr></table></div> <div>M4-9b</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>5.0</td><td>30X24</td><td>80-9703</td><td>1</td></tr></table></div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.25</td><td>30X30</td><td>80-9706</td><td>1</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.0	24X12	80-9707	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	5.0	30X24	80-9703	1	AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	6.25	30X30	80-9706	1	<div>R1-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. 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3.0	24X18	80-9074	1																																																																																																																																																																																																																																																																																																
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12.5	60X30	80-9078	2																																																																																																																																																																																																																																																																																																
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10.0	48X30	80-9080	2																																																																																																																																																																																																																																																																																																
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8.0	48X24	80-9424	2																																																																																																																																																																																																																																																																																																
12.5	60X30	80-9423	2																																																																																																																																																																																																																																																																																																
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3.0	18X24	80-9401	1																																																																																																																																																																																																																																																																																																
5.0	24X30	80-9403	1																																																																																																																																																																																																																																																																																																
7.5	30X36	80-9404	1																																																																																																																																																																																																																																																																																																
W4-W6 - SERIES					W8-W9 - SERIES					W13 - SERIES					W20 - SERIES					W21 - SERIES					W22 - SERIES					STOP-SLOW PADDLE																																																																																																																																																																																																																																																																					
<div>W4-2</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9918L</td><td>2</td></tr><tr><td>16.0</td><td>48</td><td>80-9917R</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9918L	2	16.0	48	80-9917R	2	<div>W8-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9901</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9902</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9901	1	16.0	48	80-9902	2	<div>W13-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>4.0</td><td>24</td><td>80-9569</td><td>1</td></tr><tr><td>6.25</td><td>30</td><td>80-9567</td><td>1</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	4.0	24	80-9569	1	6.25	30	80-9567	1	<div>W20-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>6.25</td><td>30</td><td>80-9602</td><td>1</td></tr><tr><td>9.0</td><td>36</td><td>80-9603</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9604</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	6.25	30	80-9602	1	9.0	36	80-9603	1	16.0	48	80-9604	2	<div>W21-6</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9607</td><td>1</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9607	1	<div>W22-1</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9620</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9625</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9620	1	16.0	48	80-9625	2	<div>STOP-SLOW PADDLE</div> <div><div><div>SIDE A</div><div></div></div><div><div>SIDE B</div><div></div></div></div> <div><div>SIDE A</div><div>BACKGROUND - RED COPY & BORDER - WHITE</div></div> <div><div>SIDE B</div><div>BACKGROUND - ORANGE COPY & BORDER - BLACK PLAIN</div></div> <table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>2.25</td><td>18</td><td>80-9950</td><td>PADDLE</td></tr></table>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	2.25	18	80-9950	PADDLE																																																																																																																																																																																	
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<div>W6-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>16.0</td><td>48</td><td>80-9945</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	16.0	48	80-9945	2	<div>W9-2</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9801</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9802</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9801	1	16.0	48	80-9802	2	<div>W3-5</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9506</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9508</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9506	1	16.0	48	80-9508	2	<div>W20-2</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9614</td><td>1</td></tr><tr><td>16.0</td><td>48</td><td>80-9615</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9614	1	16.0	48	80-9615	2	<div>W21-6</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>9.0</td><td>36</td><td>80-9607</td><td>1</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	9.0	36	80-9607	1	<div>W22-2</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9623</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9623	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. 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D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCHES)</th><th>CONN. D.O.T. #</th><th>POSTS</th></tr><tr><td>10.5</td><td>42X36</td><td>80-9621</td><td>2</td></tr></table></div>					AREA (SQ. FT)	SIZE (INCHES)	CONN. D.O.T. #	POSTS	10.5	42X36	80-9621	2	<div>W22-3</div> <div></div> <div><table><tr><th>AREA (SQ. FT)</th><th>SIZE (INCH</th></tr></table></div>					AREA (SQ. FT)	SIZE (INCH
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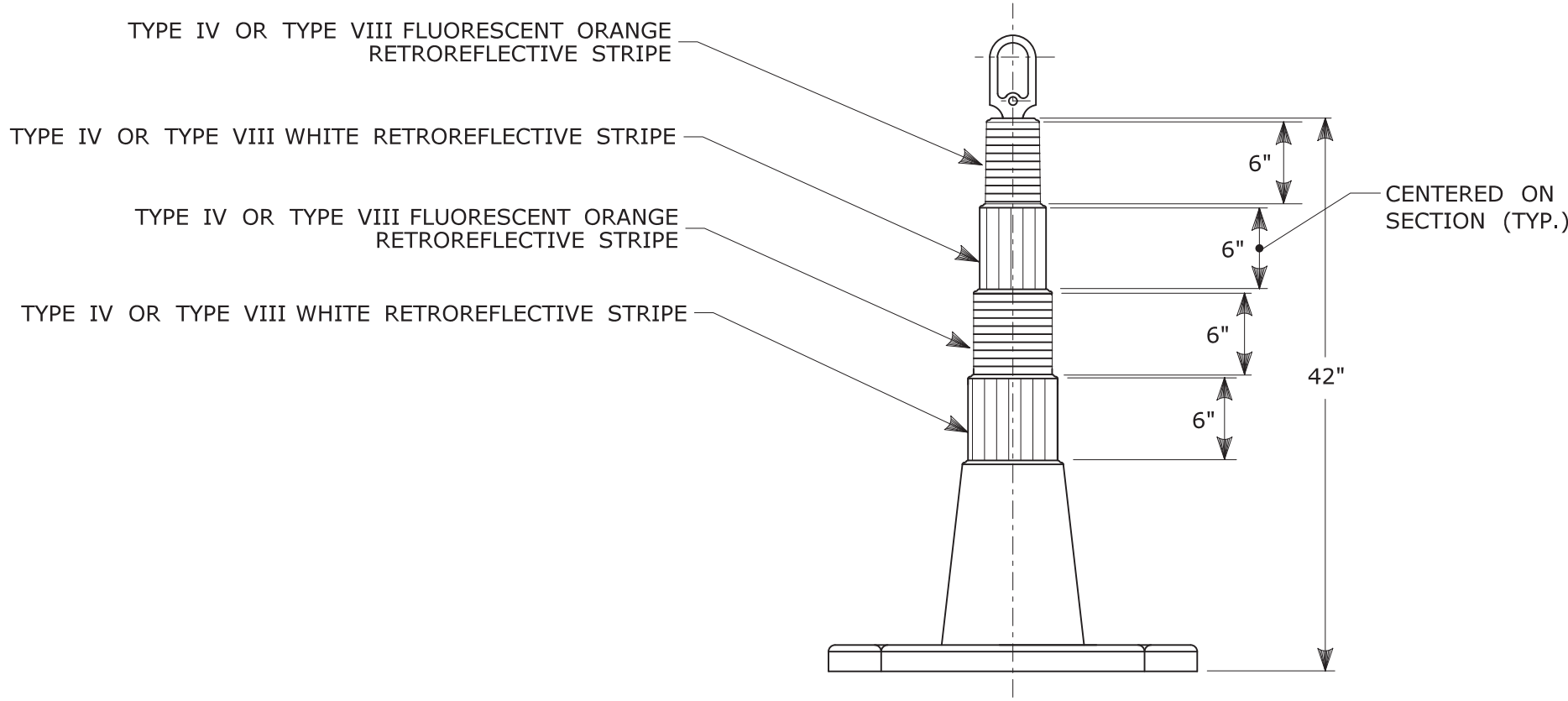


PORTABLE CONSTRUCTION SIGNS

NOTES FOR PORTABLE SIGN SUPPORTS:

- SIGNS AND THEIR PORTABLE SUPPORTS SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- MOUNTING HEIGHT OF SIGNS SHALL BE A MINIMUM OF 12" AND A MAXIMUM OF 24". SIGNS SHALL BE MOUNTED HIGHER AS NEEDED TO MEET FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY SUPPORT DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- PORTABLE SIGN SUPPORTS SHALL BE STABILIZED IN A MANNER THAT WILL NOT AFFECT THEIR COMPLIANCE WITH NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 2 DEVICES.
- PORTABLE CONSTRUCTION SIGN SUPPORTS SHOULD NOT BE USED FOR DURATION OF MORE THAN 3 DAYS EXCEPT FOR R9-8 THROUGH R9-11a SERIES, R11 SERIES, W1-6 THROUGH W1-8 SERIES, M4-10, AND E5-1. SEE STANDARD SHEET TR-1220.01 - "SIGNS FOR CONSTRUCTION AND PERMIT OPERATIONS" FOR SIGN DETAILS.

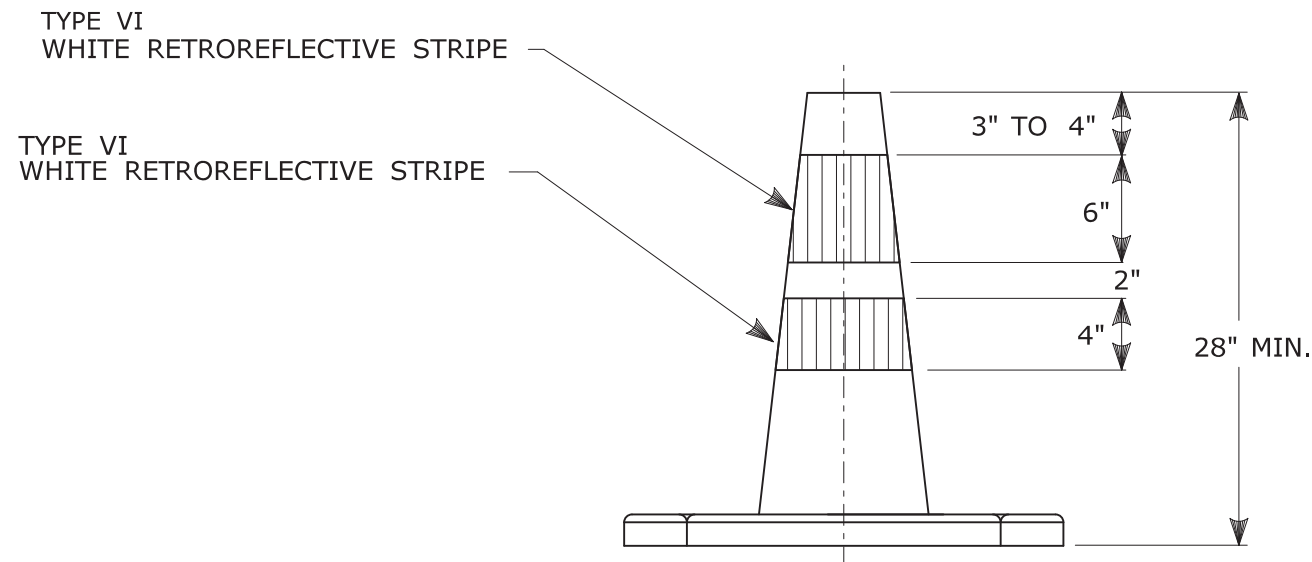
★ FOR E5-1 (EXIT SIGNS) USE MIN 48".



42" TRAFFIC CONE

NOTES:

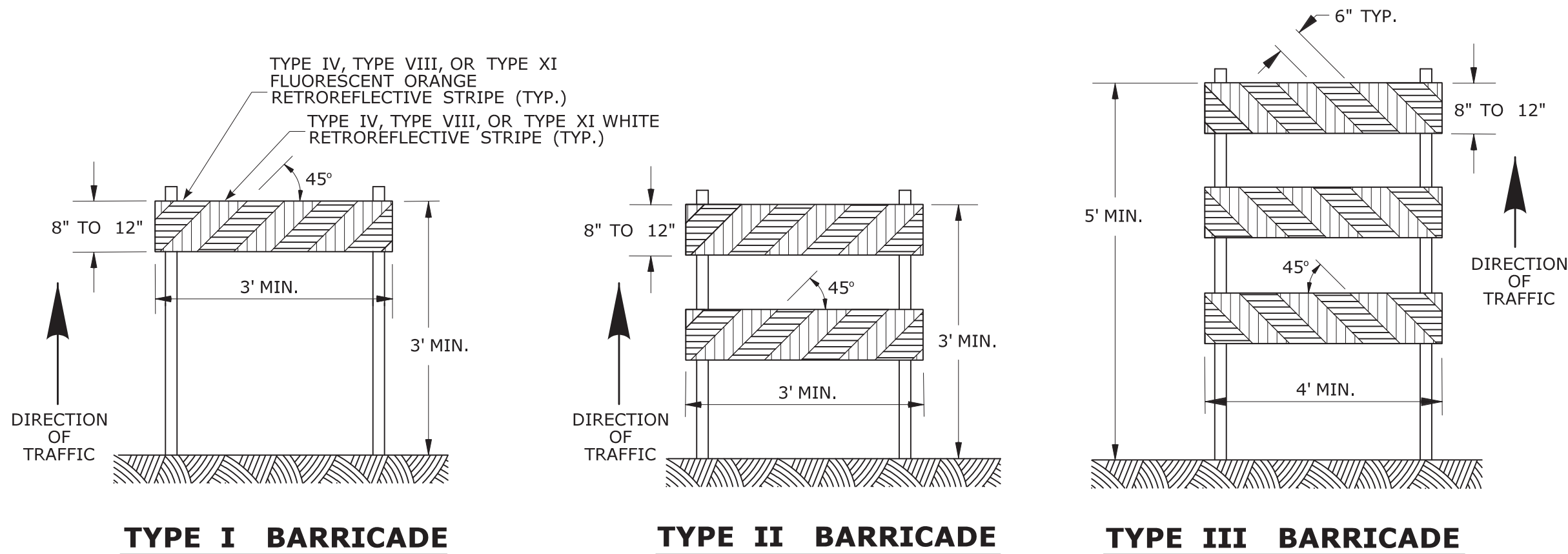
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



TRAFFIC CONE

NOTES:

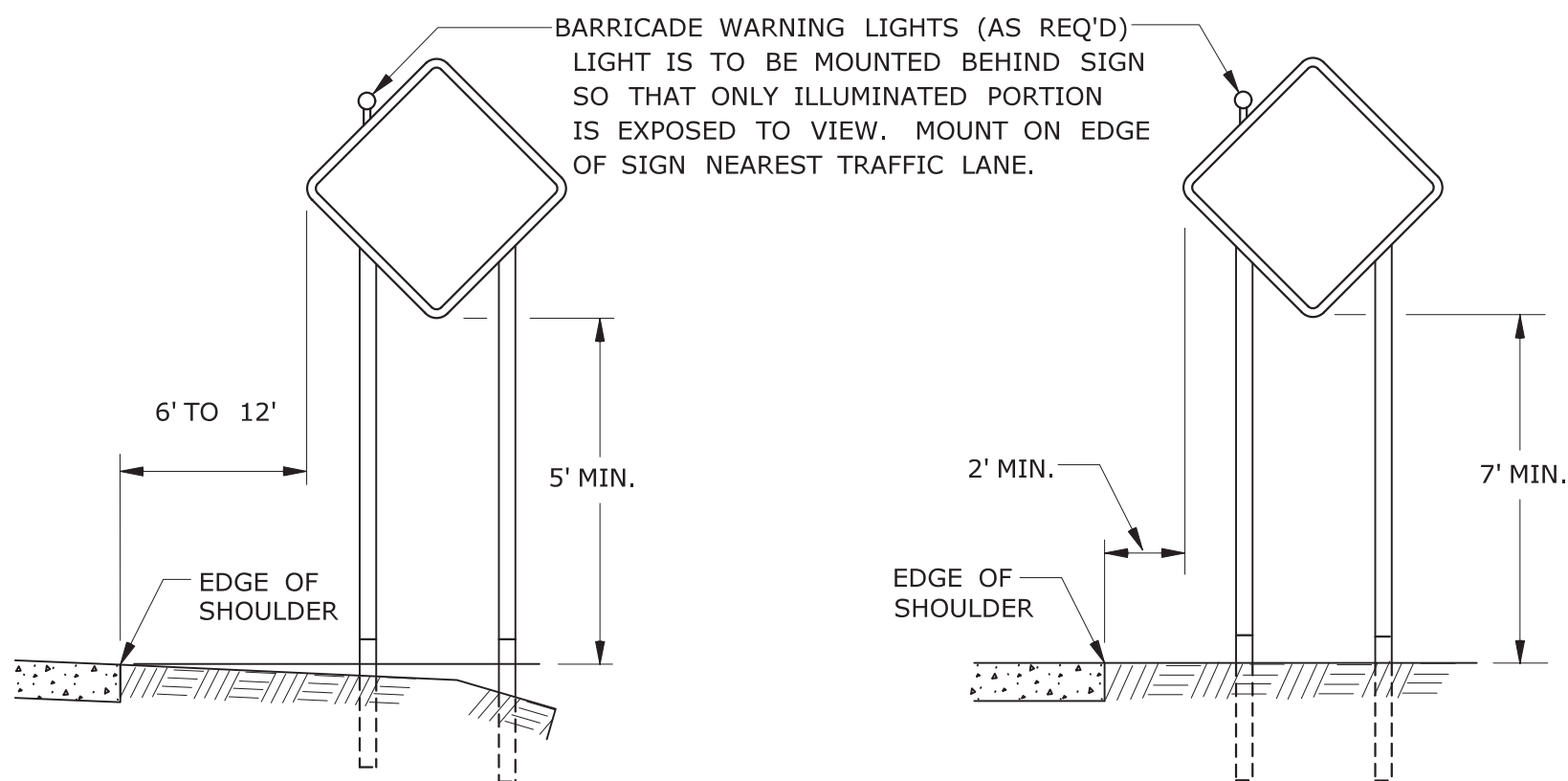
- TRAFFIC CONES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- IF RUBBER CONES ARE USED, THEY SHALL HAVE INTERIOR RIBS FOR RIGIDITY.
- IF PLASTIC CONES ARE USED, THEY SHALL BE COLOR IMPREGNATED.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY CONE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- TRAFFIC CONES NOT USED AT NIGHT MAY UTILIZE TYPE III SHEETING.
- THE SECTIONS OF CONES NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.



CONSTRUCTION BARRICADES

NOTES:

- CONSTRUCTION BARRICADES SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH AND THE LATEST EDITION OF THE MUTCD.
- MARKINGS FOR BARRICADE RAILS SHALL BE ALTERNATE FLUORESCENT ORANGE AND WHITE STRIPES SLOPING DOWNWARD IN THE DIRECTION TRAFFIC IS TO PASS. 6" WIDE STRIPES SHALL BE USED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS. THE SIDES OF BARRICADES FACING TRAFFIC SHALL HAVE RETROREFLECTIVE RAIL FACES.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY BARRICADE DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- CORNERS OF BARRICADE RAILS SHALL BE ROUNDED.
- SIGNS MAY ONLY BE INSTALLED ON TYPE III BARRICADES AND SHALL BE PLACED SO AS TO COVER NO MORE THAN ONE BARRICADE RAIL.



RURAL AREA

URBAN AREA

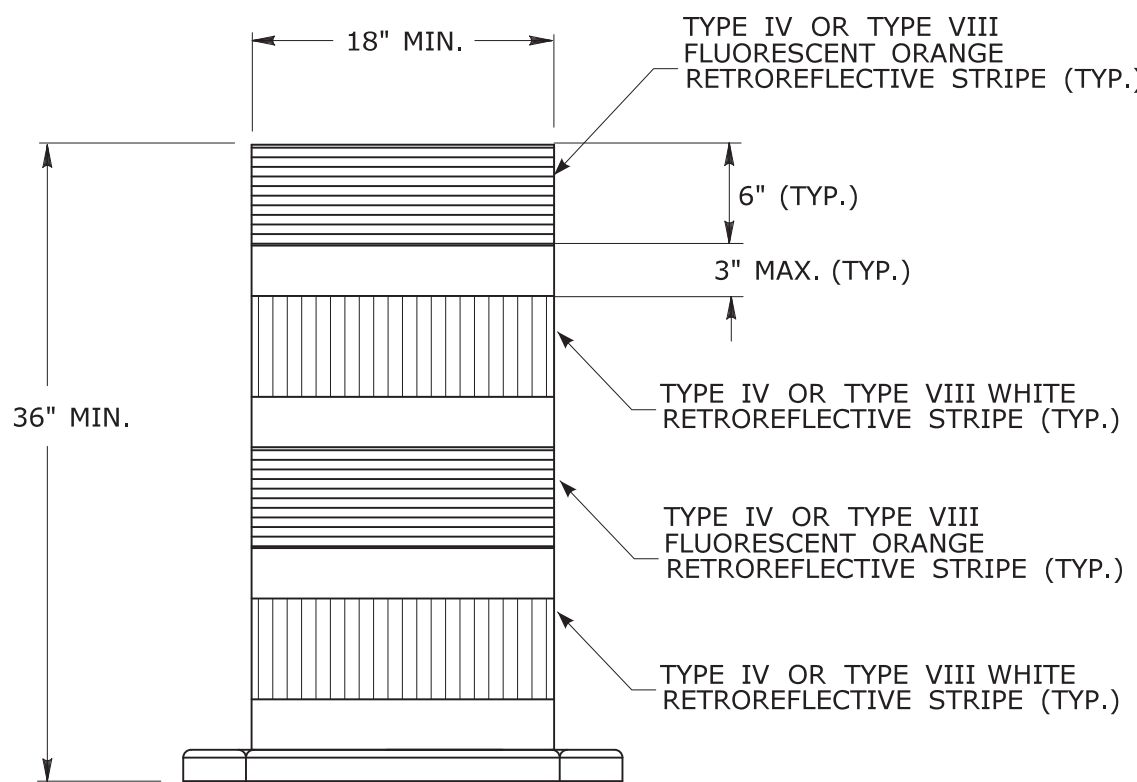
PLACEMENT OF CONSTRUCTION SIGNS TYPICAL LONG TERM INSTALLATION

NOTES:

SUPPORTS SHALL BE METAL SIGN POSTS AND HAVE BREAK-AWAY FEATURES.

REFER TO STANDARD SHEETS:



TR-1208.01 - "SIGN PLACEMENT AND RETROREFLECTIVE STRIP DETAILS."
TR-1208.02 - "METAL SIGN POSTS AND SIGN MOUNTING DETAILS."



TRAFFIC DRUM FRONT VIEW

NOTES:

- TRAFFIC DRUM SHALL CONFORM TO THE REQUIREMENTS OF NCHRP REPORT 350 (TL-3) OR THE AASHTO MASH FOR CATEGORY 1 DEVICES AND THE LATEST EDITION OF THE MUTCD.
- THE ENGINEER RESERVES THE RIGHT TO REJECT ANY DRUM DEEMED UNSUITABLE FOR THE PURPOSE INTENDED.
- THE ENTIRE AREA OF FLUORESCENT ORANGE AND WHITE STRIPES SHALL BE RETROREFLECTIVE SHEETING AS REQUIRED IN THE SPECIFICATIONS.
- THE SECTIONS OF DRUMS NOT COVERED WITH RETROREFLECTIVE STRIPES SHALL BE ORANGE.

			THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.		 STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION		SUBMITTED BY: <i>Mark F. Makuch</i> NAME/DATE/TIME: Mark F. Makuch, P.E. 2018.08.17 09:12:43-04'00'	APPROVED BY: <i>Mark F. Carlini</i> NAME/DATE/TIME: Mark F. Carlini, P.E. 2018.08.21 07:49:51-04'00'	CTDOT STANDARD SHEET	STANDARD SHEET TITLE: CONSTRUCTION SIGN SUPPORTS AND CHANNELIZING DEVICES	STANDARD SHEET NO.: TR-1220_02
3	8-2018	UPDATED SHEETING TYPE AND COLOR.									
2	8-2015	UPDATED PER MUTCD AND FORM 816 JAN 2015 REVISION.									
1	2-2011	MINOR REVISIONS.									
REV.	DATE	REVISION DESCRIPTION	Plotted Date: 8/10/2018	NOT TO SCALE	Filename: TR-1220.02.3.2018.dgn	Model: TR-1220.02					