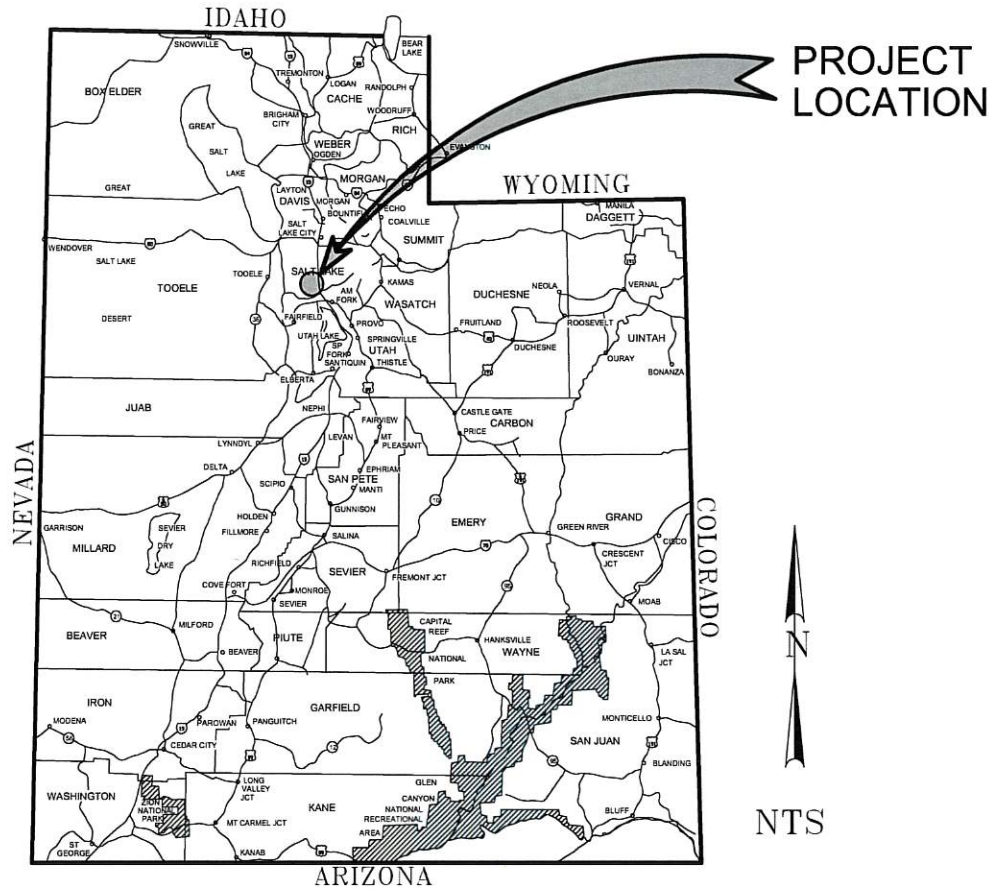


PHASE 2 - VILLAGE BOULEVARD SEWER TRUNK LINE

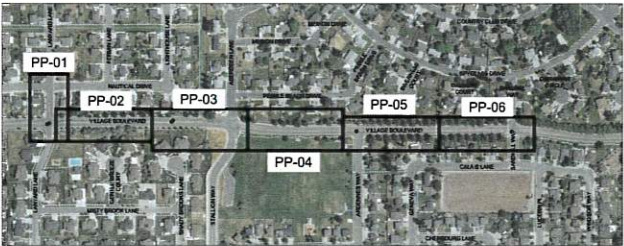
TOOELE COUNTY, UT



Sheet List Table	
Sheet Number	Sheet Title
CV-01	COVER SHEET PHASE 2 EAST
NT-02	Abbreviations
SV-01	Survey Control
NT-01	SPID Construction Specs
SP-01	Overall Site Plan
OP-01	Order of Operations
OP-02	Order of Operations
OP-03	Order of Operations
OP-04	Order of Operations
OP-05	Order of Operations
OP-06	Order of Operations
PP-01	East 102+00 to 105+00
PP-02	East 105+00 to 110+00
PP-03	East 110+00 to 114+25
PP-04	East 114+25 to 119+00
PP-05	East 119+00 to 124+50
PP-06	East 124+50 to 130+00
PP-07	East 10+00 to 12+00
PP-08	East 20+00 to 20+75 & 30+00 to 30+50
PP-09	East 40+00 to 42+00 & 50+00 to 50+50
DT-01	Sewer Details
DT-02	Sewer Details



LOCATION MAP
N.T.S.



PHASE 2 KEYMAP

PLANS PREPARED BY:
WARD ENGINEERING GROUP
231 WEST 800 SOUTH SUITE A
SALT LAKE CITY, UTAH 84101
(801) 487-8040 PHONE
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PHASE 2 - PLAN SET

STANSBURY PARK IMPROVEMENT DISTRICT	
APPROVED THIS	11 DAY
OF	AUG. 2026 A.D.
Brendan H. Thorpe DISTRICT ENGINEER	
STANSBURY PARK IMPROVEMENT DISTRICT	
APPROVED THIS	11 DAY
OF	AUG. 2026 A.D.
Brendan H. Thorpe DISTRICT MANAGER	

STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
COVER SHEET PHASE 2 EAST

231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

CLIENT: SPID
DWG: COVER SHEET DWG
JOB No: 4802-SPID238-22
DRAWN BY: WARD
DESIGNED BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

REVISIONS

PROFESSIONAL ENGINEER
362948
Brendan H. Thorpe
STATE OF UTAH

SHEET

CV-01

CIVIL PROJECT NOTES

LINE TYPES

	BOUNDARY LINE
	PROPERTY LINE
	SECTION LINE
	RIGHT OF WAY
	CENTER LINE
	PROPOSED WATER MAIN (SIZED AS INDICATED)
	PROPOSED STORM DRAIN (SIZED AS INDICATED)
	PROPOSED SANITARY SEWER (SIZED AS INDICATED)
	PROPOSED IRRIGATION (SIZED AS INDICATED)
	PROPOSED COMMUNICATION/TELEPHONE LINE
	PROPOSED GAS LINE
	PROPOSED BURIED ELECTRICAL
	PROPOSED WIRE/BARBED FENCE
	EASEMENT
	OVERHEAD POWER LINE
	OPEN DITCH, CANAL FLOW LINE
	PROPERTY SET BACKS
	EXISTING RAILROAD TRACKS
	EXISTING EDGE OF PAVEMENT
	EXISTING WATER MAIN (SIZED AS INDICATED)
	EXISTING STORM DRAIN (SIZED AS INDICATED)
	EXISTING SANITARY SEWER (SIZED AS INDICATED)
	EXISTING IRRIGATION (SIZED AS INDICATED)
	EXISTING FENCE CHAIN LINK

NOTE: ALL SYMBOLS, LINETYPES AND/OR ABBREVIATIONS MAY NOT BE SHOWN.

EXISTING SYMBOLS

	SECTION MONUMENT NOT FOUND
	EXISTING TREE/VEGETATION
	EXISTING MONUMENT FOUND - NOTED
	EXISTING TRAFFIC SIGNAL BOX
	EXISTING MONUMENT FOUND - NOTED
	EXISTING BOLLARD
	EXISTING POWER POLE
	EXISTING GAS METER
	EXISTING SIGN
	EXISTING TELE J-BOX
	EXISTING STREET LIGHT
	EXISTING ELECTRIC TRANSFORMER
	EXISTING FIRE HYDRANT ASSEMBLY
	EXISTING WATER VALVE
	EXISTING WATER METER
	EXISTING WATER VALVE-BUTTERFLY
	EXISTING MANHOLES BY TYPE
	EXISTING CATCH BASIN
	EXISTING COMBINATION BOX

PROPOSED SYMBOLS

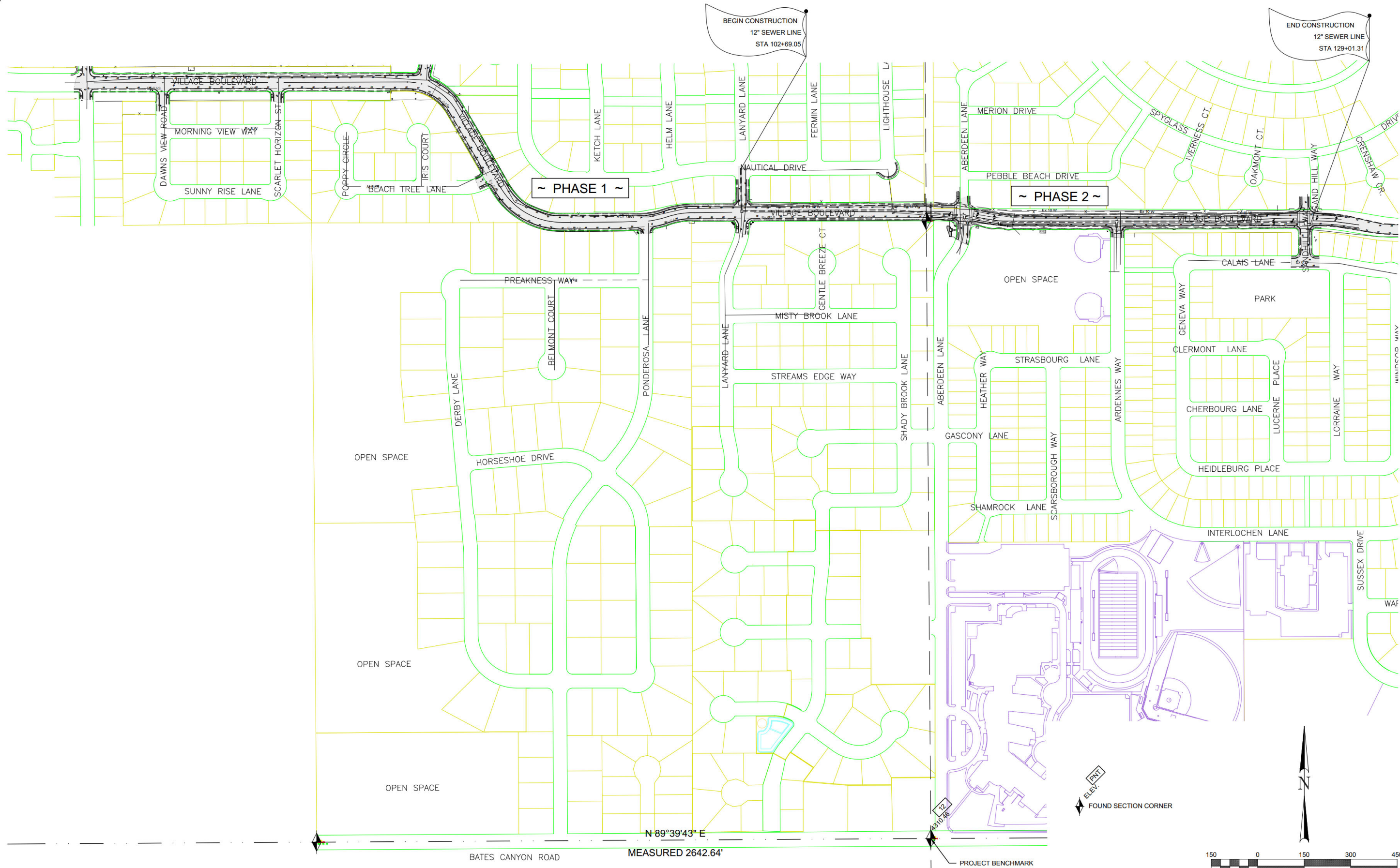
	SECTION MONUMENT FOUND
	SEWER FLOW ARROW
	MONUMENT - NOTED
	SEWER MANHOLE NUMBER
	PROPERTY CORNERS
	SEWER SERVICE LATERAL
	UTILITY POLE
	CATCH BASIN
	COMBINATION BOX
	STREET LIGHT
	STORM DRAIN MANHOLE NUMBER
	FIRE HYDRANT ASSEMBLY
	ROAD DRAINAGE ARROW
	WATER VALVE
	WATER METER
	IRRIGATION SERVICE LATERAL
	WATER VALVE BUTTERFLY
	AIR VAC
	WATER SERVICE LATERAL
	PROPOSED MANHOLE

ABBREVIATIONS

ABUT.	= ABUTMENT	MH	= MANHOLE
AGG.	= AGGREGATE	MIN.	= MINIMUM
APPROX.	= APPROXIMATE	N/NO.	= NORTH
A.S.	= AS SHOWN	NO./#	= NUMBER
AUX.	= AUXILIARY	N.T.S.	= NOT TO SCALE
AVG.	= AVERAGE	O.C.	= ON CENTER
BCR	= BEGIN OF CURB RETURN	O.D.	= OUTER DIAMETER
BOW	= BACK OF WALK	OHP	= OVER HEAD POWER
BRG.	= BEARING	PC	= POINT OF CURVATURE
C/C.L.	= CONTROL LINE/CENTER LINE	PED	= PEDESTRIAN
CATV	= CABLE TELEVISION	PI/P.I.	= POINT OF INTERSECTION
CI	= CAST IRON	PIP	= PLASTIC IRRIGATION PIPE
CLR.	= CLEAR/CLEARANCE	PL	= PROPERTY LINE
CMP	= CORRUGATED METAL PIPE	POC	= POINT ON CURVE
COL	= COLUMN	PP	= POWER POLE
CONC.	= CONCRETE	PT	= POINT
CONN	= CONNECTION	PT	= POINT OF TANGENCY
CONST.	= CONSTRUCTION	PVC	= POLYVINYL CHLORIDE PLASTIC
CONT.	= CONTINUOUS	PVC	= POINT OF VERTICAL CURVATURE
COR.	= CORNER	PVT	= POINT OF VERTICAL TANGENCY
CP	= CONTROL POINT	PVI	= POINT OF VERTICAL INTERSECTION
C.F.	= CUBIC FEET	PVMNT	= PAVEMENT
DI	= DUCTILE IRON	PVRC	= POINT OF VERTICAL REVERSE CURVE
DIA./Ø	= DIAMETER	R/RAD.	= RADIUS
DIP	= DUCTILE IRON PIPE	R/C	= REBAR AND CAP
DIM.	= DIMENSION	Rd.	= ROAD
DR	= DIMENSION RATIO	RCP	= REINFORCED CONCRETE PIPE
DWG.	= DRAWING	R/W	= RIGHT OF WAY
E	= EAST	REINF.	= REINFORCING
EA	= EACH	REQ'D	= REQUIRED
ECR	= END OF CURB RETURN	RET.	= RETAINING
EG	= EXISTING GRADE	R.P.	= REFERENCE POST
EL./ELEV.	= ELEVATION	RT	= RIGHT
ELEC	= ELECTRIC	S	= SLOPE
EO	= EDGE OF OIL	S/SO.	= SOUTH
EST.	= ESTIMATED	SCH	= SCHEDULE
EXIST	= EXISTING	SD	= STORM DRAIN
F.F.	= FINISHED FLOOR	SDMH	= STORM DRAIN MANHOLE
F.G.	= FINISHED GRADE	SDR	= STANDARD DIMENSION RATIO
FL/FL	= FLOW LINE	SDWLK	= SIDEWALK
FT.	= FEET	SECT./SEC	= SECTION
FLG.	= FLANGE	SHLD	= SHOULDER
GA.	= GAUGE	SHT	= SHEET
G	= GALLON	SPA.	= SPACING/SPACES
GALV.	= GALVANIZED	SQ.	= SQUARE
GMH	= GAS MANHOLE	STA.	= STATION
GV	= GAS VALVE	STD.	= STANDARD
HA	= HECTARE	STD.	= STANDARD DRAWING
HDPE	= HIGH DENSITY POLYETHYLENE	STR.	= STRUCTURE
HGL	= HYDRAULIC GRADE LINE	SS	= SANITARY SEWER
HMA	= HOT MIX ASPHALT	SSMH	= SANITARY SEWER MANHOLE
HORIZ.	= HORIZONTAL	T	= TANGENT DISTANCE
HP	= HIGH PRESSURE/HIGH POINT	T.B.	= THRUST BLOCK
HWY	= HIGHWAY	TBC	= TOP BACK OF CURB
I.D.	= INSIDE DIAMETER	TBW	= TOP BACK OF WALK
INCL.	= INCLUDES	TEL	= TELEPHONE
INT	= INTERSECTION	TEMP	= TEMPORARY
INV	= INVERT	TMH	= TELEPHONE MANHOLE
IRRIG	= IRRIGATION	TOW	= TOP OF WALL
L	= LENGTH	TYP.	= TYPICAL
LIN. FT.	= LINEAR FEET	UG	= UNDERGROUND
LOC	= LIP OF CURB	UTIL.	= UTILITY
LOC.	= LOCATION	VC	= VERTICAL CURVE
LP	= LIGHT POLE/LOW POINT	VERT.	= VERTICAL
LT	= LEFT	W	= WEST
M.J.	= MECHANICAL JOINT FITTING	W/	= WITH
MISC.	= MISCELLANEOUS	WC	= WITNESS CORNER
MPa	= MEGAPASCAL	WMH	= WATER MANHOLE
MAX.	= MAXIMUM	WV	= WATER VALVE
MG	= MEGAGRAM	YD ² /YD2	= SQUARE YARD
		YD ³ /YD3	= CUBIC YARD
		YD.	= YARD
		YR	= YEAR

NOTE: ALL SYMBOLS, LINETYPES AND/OR ABBREVIATIONS MAY NOT BE SHOWN.

FILENAME: W:\SPID\SPID 2023 Village Blvd Design\Village Blvd Sewer Trunk Line\engineering\Design\Survey Control - Phase 2.dwg TAB: SV-01 Survey Control PLOT DATE AND TIME: 6/9/2026 8:44 AM



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SPID Control					Project Control & Benchmark				
Point #	Northing	Easting	Elevation	Description	Point #	Northing	Easting	Elevation	
12	86785.44	14426.95	4310.41	S 1/4 CORNER, SEC 21, T2S, R4W, SLBM	8190009	86785.36	14427.00	4310.46	

STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
SURVEY CONTROL

231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

CLIENT: SPID
DWG: SURVEY CONTROL - PHASE 2.DWG
JOB No: 4802-SPID238-22
FOR USE ONLY FOR DRAWING. DRAWING IS SUBJECT TO ANY
REVISIONS, DIMENSIONS AND NOTES TAKE PRECEDENCE

DRAWN BY: WARD
DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

REVISIONS

PROFESSIONAL ENGINEER
BRENDAN H. THORPE
STATE OF UTAH

SHEET
SV-01

STANSBURY PARK IMPROVEMENT DISTRICT UTILITY INSTALLATION REQUIREMENT

SPID is in no way responsible for omissions or errors on the construction plans. SPID reserves the right to include, and/or require additional improvements or adjustments to the approved plans during inspections and construction, if omissions or errors are discovered and/or to add or furnish construction improvements pertinent to the functionality, reasonable use of, or longevity of the system. SPID will notify the Developer in writing within 24 hours (excluding weekends and holidays) of any such required additions, modifications, or changes discovered. All construction and improvements remain the ownership and responsibility of the Developer until final written acceptance by SPID.

The Contractor shall conform to the latest publication of APWA Standard Specifications and Standard Plans in its entirety, unless superseded by these Utility Installation Requirements, SPID Development Requirements (most current Revision), the Construction Plans, and Stansbury Park Improvement District Standard Drawings (most current Revision).

SEWER

- If ground water is present, pumps with well points along the trench shall be required to minimize water intrusion at a level below the working area at all times.
- Place acceptable bedding material 6" below pipe and a minimum of 12" above top of pipe.
- All manhole section joints and boots shall be sealed on the outside with a flexible joint sealant that is recommended by the manufacturer and poly-wrapped. The manhole exterior surface shall be cleaned and inspected prior to installation, and shall have an exterior asphalt-based coating (or District approved "water proofing" equivalent). This requirement will be determined by SPID onsite, prior to actual installation.
- Grouting of pipe penetration is required to a professional finish on the inside of manhole inlet and outlet pipe. Inside stacked section joints do not require grouting. As lids are adjusted to finish grade, and the concrete collar is poured, make sure there is nothing protruding inside the manhole and if grouting is required, it shall have a professional look with a nice smooth finish.
- The flow of ground water is prohibited into a live or newly constructed line during construction. The contractor shall be required to install a plug when connecting into an existing live sewer line and is only to be removed with approval and in the presence of SPID.
- Check and tighten jam nut, which is used to seal concrete and rubber boot of manhole before inserting pipe.
- Air testing and televising are due prior to asphalt paving. Televising record is required to be delivered to SPID with manhole numbers (provided by SPID), direction of flow and footages recorded for a total length of pipe between manhole sections, including lateral location footages.
- Wye connections to main line are required at 10:00 and 2:00 positions.
- When connecting laterals to existing sewer main lines, use a nose-on connection. Inverts of new laterals must be made a 10:00 and 2:00 positions.
 - For nose-on connections to an existing 10-inch main or larger, the connection shall be made using an Inserta-Tee fitting. Connections shall be core-drilled. Rubber sleeves - ASTM F477, Bands - 301 SS, Screws - 305 SS, Housing 301 SS, and Gaskets - ASTM F477.
 - For nose-on connections to an existing 6-inch or 8-inch PVC main, the connection shall be made by using an Inserta-Tee according to the requirements of 9(a).
 - For nose-on connections to an existing 6 or 8-inch concrete or vitrified clay main, connection shall be made using an Inserta-Tee fitting.
 - For nose-on connections to any other type of pipe, SPID shall approve before installation.
- Install ¾-inch rock, 6 inches below the sewer lateral on undisturbed gran (i.e., using a flat-blade bucket), or compact grade at bottom of utility trench prior to backfill and pipe installation. Loose or non-compacted subgrade at bottom of trench is prohibited. Install ¾-inch rock 1.0 foot minimum above the top of the lateral.
- Any manhole barrel, cone, chimney, or other component that is damaged upon delivery, storage, or installation shall be rejected and replaced before acceptance.
- Concrete collars are to be inspected and approved by SPID and Tooele County. Concrete collars around the ring at finish grade require an arrow to denote flow of direction. SPID personnel must be present during process.
- At the end of the one-year warranty period the sewer line will require cleaning and televising prior to final acceptance by the District. Per Development Agreement between SPID and Developer.
- Wire tracer is required on all laterals, secured to the top of the pipe every 10' commencing at the wye connection and continuing to the cleanout. Anti corrosion gel caps are required on the ends of all buried wire, including any wire splicing.
- For sewer lines less than 15 inches in diameter, install 4-foot diameter manholes. For sewer lines 15 inches in diameter and greater; and for any diameter greater than 15 feet in depth, install 5-foot diameter manholes. Large diameter pipes (30 inches in diameter or greater) shall have appropriated manhole diameters as designed by the engineer and approved by the District. All three-way and four-way manholes shall be 5-foot diameter or greater regardless of line size.
- Cleanout lids require a metal detectable lid including a concrete collar.
- Flat frame and cover manhole lids are not allowed on sewer manholes.
- All sanitary sewer construction shall comply with SPID sewer design standards, construction specifications, and standard drawings.
- Sewer pipeline shall be ASTM D 3034, SDR 35 with bell-and-spigot ends with gasketed joints.
- Extreme care should be taken when placing upstream and downstream pipe into sewer manhole trough, assure that both pipe and cement trough flow lines are matched. If flow is restricted in either direction due to the placement of the pipe, a full length of pipe at a minimum, shall be uncovered and raised or lowered to match flow lines.
- Grade risers shall not exceed a distance of more than 12-inches. If 13 inches or more are required to adjust lids to finished grade, an additional manhole section is required. Plastic riser forms shall be used as manufactured by "Whirlygig", or as approved by SPID. Brick, block, concrete, wood, metal shims, and all other materials are prohibited for adjustment of frame and cover to final grade.
- Pipe zone material is required for the entire length to the termination point of all sewer laterals.
- ROMAC Industries Stainless Steel, Light Weight Repair Clamp, or approved equivalent stainless steel coupler, is required for all sewer mainline repairs.
- Contractor Furnished Sewer CCTV Report Required.

Prior to televising, all sewer lines must be cleaned using hydro jetting systems, resulting in all debris being removed. Introduce a small stream of water into the line which is to be televised. Contractor shall coordinate and schedule the work, providing clear direction prior to the company's arrival on site. Contractor shall provide SPID 24 hours minimum notice, and SPID shall be present prior to commencing any installation and televising. CCTV personnel shall be NASSCO PACP certified. The contractor shall provide a CCTV Report, which shall include the following minimum information.

- System Name: Stansbury Park Improvement District
- Project Name
- Paper log and Video log, including manhole numbers matching the approved construction plans, lateral distances, quadrant location, and any defects or abnormalities. Refer to SPID Standard Drawing 209: Example CCTV Report. This is provided as an example of the type of required paper log for all CCTV inspections. Together, the paper log and the video log, both constitute the required CCTV Report.

A USB drive containing the Report shall be delivered by the contractor to SPID for review. All non-conforming and defective work shall be repaired or corrected by the contractor and approved by SPID before any asphalt is placed.

WATER

- All culinary water construction shall comply with SPID culinary water design standards and construction specifications.
- Install water system appurtenances and thrust blocking according to SPID standards and such that maximum static pressure is 125 psi and such that maximum soil bearing pressure does not exceed 1,500 psf.
- No. 14 gauge wire tracer (insulated copper) is required on all water system pipes and appurtenances. Gel caps will be used at termination points or splices. Wire on main line and laterals wires are not required to connect.
- Unless noted otherwise; all water lines 4 inches through and including 12 inches shall be PVC AWWA C-900, DR-18 (Pressure Class 235). Water lines 14 inches though 48 inches shall be PVC AWWA C-905, DR-18 (Pressure Class 235) unless otherwise noted. Residential service lines shall be ¾" iron pipe size poly service lines and shall not exceed 40" below finished asphalt grade, except as otherwise noted because of other utility conflicts.
- Tees, bends, reducers, and end caps shall be Ductile Iron, Class 250 AWWA C110.
- Valves 4 inches to 10 inches shall be resilient wedge gate valves, cast iron body, bronze mounted, non-rising stems with "O" ring seals conforming to AWWA C504, opening counterclockwise. Valves 12 inches to 48 inches shall be cast iron body butterfly valves, bronze mounted conforming to AWWA C504, and shall be high performance DEX Double Eccentric Butterfly Valves manufactured specifically by AV-TEK.
- Water valve boxes shall be straight vertically and centered over valve nut. NO EXCEPTIONS!!! Valve boxes shall be installed with a level vertically and horizontally, and checked with a level. Broken valve box sections are prohibited. If boxes require replacement the integrity of wire tracer shall not to be compromised.

- Splice connections on water service laterals between main line and setter are prohibited.
- Tees, bends, valves, and all other fittings shall be installed with a minimum of 3 feet of pipe separation. Fittings installed with less than 3 feet of pipe separation will be rejected.
- Wire tracer is required on all main line and lateral lines. Anti corrosion gel caps are required on all buried wire, including splices, and at any termination point. Wire is to be secured in the center/top of the pipe every 10'. Wire tracer is to be secured to the outside of all valve boxes and terminate inside the valve box near the top through a small hole or a horizontal penetration cut into the valve box, allow no less than 2-feet of excess wire when lid is removed. Wire tracer shall also be extended from inside the meter box and up to the building either inside the building, or to a termination point at the surface wall of the foundation.
- Contact the District for chlorine test prior to flushing. All new water main or appurtenances shall be installed, tested, flushed, and disinfected in accordance with AWWA standard C651-05. Evidence of satisfactory disinfection shall be provided to the Utah Division of Drinking Water on all new distribution system construction. The use of culinary water for culinary purposes shall not commence until the bacteriological tests indicate the water is free from contamination.
- FIRE HYDRANTS SHALL BE LEVEL both VERTICALLY AND HORIZONTALY Prior to placement of curb, gutter and sidewalk. FINISH GRADE OF SURROUNDING SURFACE ELEVATION SHALL NOT EXTEND ABOVE THE BURY LINE ON THE HYDRANT BARRELL. Contractor shall exercise care to ensure that the 6" hydrant lateral line feeding the hydrant is installed level.
- Joint restraints are required on all fire hydrant assemblies from main to hydrant including all bend fittings on water main. All bend fittings include concrete thrust blocks.
- Longitudinal bending of pipes and deflections at the joints should be avoided and are unacceptable as a means of eliminating bend fittings both in design and construction. Pipes shall be installed "straight" with proper horizontal and vertical bend fittings. Fine adjustments in and out of bend fittings are permitted provided that the joint is properly installed (not exceeding the maximum reference line) in a non-stressed condition, which is deemed to be 1-degree maximum deflection at the joint. Bending of pipe is not permitted. Pipe shall not be installed in bell beyond the mark on the spigot end of the pipe.
- On all new and extensive distribution system construction, evidence of satisfactory disinfection shall be provided to the Utah division of drinking water. The District will collect a minimum of two bacteria samples separated by a 24-hour period for each set of samples. The developer will be billed at the labs rate per sample plus personnel time to deliver samples as per Development Agreement between SPID and Developer (Plan review and inspection fees). The use of water for culinary purposes shall not commence until the bacteriologic tests indicate the water to be free from contamination.
- All types of installed pipes shall be pressure and leak tested in accordance with AWWA Standard C 600-99. Hydrostatic main line testing is required at 1.5 times the static pressure of the location with a minimum testing pressure of 200 psi for the duration of two (2) hours. District must be present to witness test and the satisfactory test results are required prior to placement of asphalt and then again after meter setters have been installed, and preferably after all street improvements have been completed including street monuments.
- EXTREME CARE should be taken when installing water meter boxes, yoke and laterals. They shall be placed on firm and a level surface prior to installing meter box, yoke and lateral lines inside the box. The meter boxes shall be clean and the gravel or ground level shall be level to the outer edge of the inside of the box and not extend above the bottom of the yoke and lateral lines. The meter box shall be leveled vertically and horizontally. A small doghouse is required representing pipe circumference to accommodate laterals. Water boxes are required to be maintained in a clean and non-damaged condition throughout the warranty period. Meter box lid standard is 1.5 inches above top back of curb. In no case lower, if at the end of the one-year warranty period the box has settled it will be required to be raised back to standard. ¾" gravel is required for setting meter box grade. (No loose dirt under boxes, yoke and lateral lines) Prior to placing meter box, ensure that the water service lateral and bottom of trench is no deeper than 40", if grade is too low, raise grade by placing ¾-inch gravel. Use a circular hole saw for doghouse penetration. All meter boxes shall have an insulation disk installed just below the frame and cover, 4 inches thick required, and shall be of the proper diameter to provide a tight fit.
- Contractor or Developer will purchase meter from either the District or Distributor. Residential radio read meters ¾"X 5/8 and 1" meters are Neptune (R9001)
- Contractor to supply Neptune meters as directed by SPID.
- Commercial meter lid (30") requires D&L lid #1180 with recessed 2" offset hole for Neptune radio pod.
- Damaged, smashed or partially smashed meter boxes will require replacement.
- Residential water laterals are to be installed 40 inches below top back of curb. (At TBC location)
- During the 1-year warranty period, if the meter box lid is left off in cold weather, or the meter freezes for any reason caused by negligence, including damage to the radio pad or wire, the Developer will be invoiced for the cost of replacement per the Development Agreement.
- Tee posts are recommended around meter boxes for protection although not required.
- Wire tracer shall be tested prior to asphalt placement. If a signal cannot be located, contractor shall repair wire prior to paving, and only after acceptance by SPID.
- Contractors are prohibited from operating any and all water valves in existence prior to commencement of construction.
- Hot taps or open line cuts require a disinfection application by swabbing the outside and inside of all pipe surfaces, including tapping tools prior to any work being conducted. SPID shall be present during all such activities.
- A cap is required on all open-ended water lines when unattended.
- Inspections on valve boxes prior to collaring are required and then again when pouring. The District will place an identification mark in the concrete.
- All fittings are to be greased and wrapped, saddles included.
- Residential minimum service lateral shall be ¾" IPS poly.
- Import bedding material is required for the entire length to the termination point of all water laterals.
- Residential water cans require a 21" diameter by 41" deep ADS box with a 21" vertical dud check meter setter. Lid is D&L # 2240-15
- Residential water service laterals are to be ¾ Iron pipe size poly pipe.
- All fittings require grease, and plastic wrap.
- Imported sand bedding, or fines is required for pipe zone (1-foot minimum above top of pipe) material shall be pre-approved by SPID prior to placement, then 3" minus import material.
- All corporation stops shall be ball corporations.
- (R309-550-6(1)) NSF STANDARD FOR HEALTH EFFECTS. All materials which may contact drinking water, including pipes, gaskets, lubricants, and O-Rings, shall be ANSI-certified as meeting the requirements of NSF Standard 61, Drinking Water System Components - Health Effects. To permit field - verification of this certification, all such components shall be appropriately stamped with the NSF logo.
- (R309-550-6(3)) AWWA STANDARDS FOR MECHANICAL PROPERTIES. Pipe, joints, fittings, valves, and fire hydrants shall conform to NSF Standard 61 or Standard 14, and applicable sections of ANSI/AWWA Standards C104-A21.4-03 through C550-05 and C900-07.
- (R309-550-8(10)) DISINFECTING WATER DISTRIBUTION SYSTEMS. All new water mains or appurtenances shall be disinfected in accordance with AWWA Standard C651-05. The specifications shall include detailed procedures for the adequate flushing, disinfection and microbiological testing of all water mains. On all new and extensive distribution system construction, evidence of satisfactory disinfection shall be provided to the Division. Samples for coliform analyses shall be collected after disinfection is complete and the system is refilled with potable water. A standard bacteriologic plate count is advisable. The use of water for culinary purposes shall not commence until the bacteriologic tests indicate the water to be free from contamination.
- Above water crossings: The pipe shall be adequately supported and anchored, protected from damage and freezing, and accessible for repair or replacement.
- Under water crossings: A minimum of two feet of cover or greater, as local conditions may dictate, shall be provided over the pipe. When crossing water courses greater than 15 feet in width, the following shall be provided:
 - The pipe shall be of especial construction, having restrained joints for any joints within the surface water course and flexible joints at both ends of the water course.
 - Valves shall be provided at both ends of water crossings so that the section can be isolated for testing or repair; the valves shall easily accessible, and not subject to flooding; and the valve nearest to the supply source shall be in a manhole.
 - Permanent taps shall be made on each side of the valve within the manhole to allow insertion of testing equipment to determine leakage and for sampling purposes.

- Asbuilt drawings are required prior to releasing bond.

STORM DRAIN

- Storm drain requires a satisfactory air test.
- Bell ends of pipe are prohibited in catch basins.
- ¾" or 1-1/2" rock with a minimum of 6" under pipe and 1" above top of pipe shall be required for pipe zone material.
- All storm drain construction shall comply with SPID storm drain design standards and construction specifications and standard drawings.
- All storm drain pipes and fittings include RCP, ASTM C 76, with bell-and-spigot ends and gasketed joints with ASTM C 443, rubber gaskets; or double gasket HP Sanitize pipe. Pipes shall be encased with ¾" gravel for HP Sanitize Pipe, or ¾" to 1-1/2" gravel for RCP pipe, and placed a minimum of 6" below and 12" above pipe, unless specific exceptions have been noted otherwise on the plans or in writing by the District.
- When using HP Sanitize Pipe, all connections to manholes, boxes, catch basins, vaults, and structures shall be made "watertight" according to ASTM C923, Provide Type 3 water stop gasket and stainless steel "take-up" clamp and stainless-steel screws. For all pipe connections to manholes, extend grout apron 4" minimum from the exterior face of the box around the complete exterior circumference of the pipe.
- Provide core holes that are at least 4" larger than attaching outer pipe diameter. Cut core holes at the manufacturing plant unless the District permits field holes.
- Center core holes to leave 2" of concrete measured horizontally from inside wall of the box to core hole. Locate core hole vertically so bottom of core hole will be at or above floor elevation with at least 5" of concrete directly above the core hole of the top of the box. In order to eliminate the need for water line loops and other utility conflicts, storm drain lines may be raised, as required by the District, and cast-in-place boxes also may be required by the engineer and/or the District accommodate raised storm drain lines. Such boxes are considered deviations and subject to item 9 below. Always conform to manufacturer's recommendations for minimum pipe cover and loading specifications.
- Deviations from core hole tolerances require shop drawings and approval by the District prior to installation. Shop drawings will identify lifting point number and location.
- All manhole covers shall be raised or lowered to meet 3/8" below finished grade.
- Flat frame and cover manhole lids are not allowed.
- Grade risers shall not exceed a distance of more than 12-inches. If 13 inches or more are required to adjust lids to finished grade, an additional manhole section is required. Plastic riser forms shall be used as manufactured by "Whirlygig", or as approved by SPID. Brick, block, concrete, wood, metal shims, and all other materials are prohibited for adjustment of frame and cover to final grade.
- Contractor shall cut pipe flush with the inside wall of the box or manhole and shall grout with non-shrink grout to a smooth and professional finish.
- Contractor is to grout at connection of pipe to box with non-shrinking grout, including pipe voids left by cutting process, and any other voids that may exist, including but not limited to lid and void left from curb and gutter at grating, to a smooth professional finish. Any pipe that is cut should have a nice professional look complete, no sloppy work.
- Any barrel, cone, chimney, or other component of any box that is damaged upon delivery, storage, or installation shall be rejected and replaced before acceptance.
- When required by the District Engineer, all stormwater manufactured treatment devices (hydrodynamic separation and/or filtering) shall be capable of removing trash, sediment, total suspended solids (TSS), oil and grease materials, metals, hydrocarbons, and other pollutants from stormwater runoff, and shall be certified by NUDEP and NJCAT, and comply with the most current requirements of UDOT Special Provision Section 02631S: Stormwater Manufactured Treatment Device.

GENERAL

- Survey staking is required for installation of water, sewer and storm drain. Survey for water shall include but not limited to the following, cut for proper depth, bend fittings, tees, valves, and hydrants and include TBC grade as needed for hydrants, meter boxes and laterals.
- The contractor shall contact the District and the District must be present prior to commencing any new activity including, but not limited to the installation of water boxes, valve boxes, water main, sewer main, storm drain and valves to tee's etc.
- The District requires 24-hour notice for inspections. The inspector will try to be on site daily to coordinate inspections as required
- Existing utilities have been shown on the plans using a combination of on-site surveys and as-built drawings. Contractor shall verify locations and inverts of existing utilities to which new utilities will be connected prior to beginning construction
- All culinary water, sanitary sewer, and storm drain improvements shall conform to the latest SPID Standards for design and construction.
- Call before you dig. It's free and it's the law. 1-800-662-4111.
- The locations of existing underground utilities shown on this plan are diagrammatic only, and all utilities may not be shown. The Contractor shall contact the proper local authorities or respective utility companies to confirm the location of all existing utilities before commencing work. Any damage due to failure of the Contractor to contact the proper authorities shall be borne by the Contractor.
- Contractor is responsible for obtaining the required encroachment permits from Tooele County when working within the County rights-of-way.
- Any area outside the limit of work that is disturbed shall be restored to its original condition at no cost to the owner, SPID, or Tooele County.
- It shall be the Contractor's responsibility to review all of the drawings and specifications before commencing construction.
- Contractor shall maintain a minimum of one-foot vertical separation distance between all utility crossings, unless otherwise shown on the plans.
- SPID will have full time onsite inspections as time permits during construction of utilities. Notice is required to be given by Contractor to SPID prior to any work performed.
- Contractor is to grout at connection of pipe to manhole with non-shrinking grout, including pipe voids left by cutting process, to a smooth finish.
- Contractor shall cut pipe flush with the inside wall of the box or manhole.
- Contractor shall remove nails, rebar and other protrusions from the manhole or pipe inside surface, as well as all form work, plastic and cardboard etc.
- All manhole covers shall be raised or lowered to meet 3/8" below finished grade.
- The District must approve all pipe zone material prior to placement and shall meet pipe manufacturer's recommendations. Maximum particle size shall be ¾ inch.
- Backfill all utility trenches above pipe zone with Granular Fill material meeting AASHTO M145 Classification A-1-A, A-1-B, A-2-4, or A-3 per ASTM D3282. Place in 8-inch maximum lifts and compact to a minimum 96% relative density per ASTM D1557, Modified Proctor. Otherwise, comply with APWA Sections 33 05 20 and 31 23 26.
- Contractor shall stub all water and sewer laterals from the main, 10 feet minimum from the sidewalk (past the public utility easement and utilities). Provide 2X4 posts marking the stubbed locations of all water and sewer laterals, together with depth of cut on the posts from the top of marker to the invert of lateral. The bottom of the post shall be placed at the invert elevation of water and sewer laterals. Water posts shall be painted blue, and sewer posts shall be painted green. Wire tracer shall continue from the end of lateral and extend to the top of 2X4.
- Water trucks require an air gap when using a hydrant to obtain water. The hydrant gate valve should be operated to start and stop the flow of water from the hydrant. The Main hydrant valve should remain on in full open position when hydrant meter is attached. Hydrant meter requires a \$1,200 deposit. Construction water will be billed at \$ 4.00 per thousand gallons to Developer. Developer/Contractor to provide monthly hydrant readings to SPID.
- All water, sewer, and storm drain facilities shall be commissioned per APWA Standard Specification 33 08 00.
- Backfill material shall not be placed over pipe bedding until District has inspected and given approval for the Contractor to do so. The District can request that a line be re-excavated to verify proper bedding and the

contractor shall be obligated to comply with the request if a line has been covered over without prior approval from the District.

- Site and roadway embankment shall be brought to finished subgrade elevations prior to commencing the utility trenching and installation of any water and/or storm drain lines.
- Tolerances for utility line grades and alignments are specified in standard drawings 208-A and 208-B, which SPID strictly enforces. SPID maintains "zero" tolerance for flat bellies and flat zones / spots in pipelines. Contractor shall correct non-conforming work, and re-televis the corrected work until the work is in compliance.

POST CONSTRUCTION

- Asbuilt Drawings shall be submitted to the District Manager.
 - Ensure that all data for "Asbuilt Drawings" is collected.
 - The Asbuilt Drawing set shall consist of the Approved Construction Drawings, including approved revisions, with all annotations and graphical representations modified to reflect the "as constructed" condition of the public improvements, private service laterals, and utility connections as determined by a field survey conducted by the Project Surveyor. Notes and redlines from the contractor (used exclusively) are insufficient and will be rejected.
 - All revisions, annotations, and graphical representations shall be drafted in AutoCAD.
 - The Asbuilt Drawings shall include: title page (stamped and signed by Engineer and marked "ASBUILT DRAWINGS"), overall site plan, overall utility plan, plan and profile sheets, landscape and irrigation plans, special detail sheets, and all other sheets pertaining to water, sewer, and storm drain systems. Sheets not included in the Asbuilt Drawing set shall be line-out in the drawing sheet index.
 - Project Controls
 - All Asbuilt Drawings shall be submitted (both hard copy of AutoCAD formats) using the District's survey coordinate base, including a survey control sheet indicating the District's survey controls used. Plans submitted otherwise will be rejected.
 - Provide on plans two (2) swing ties, or measured distances, to all private service lateral stub markers for each lot or building; as well as any sewer cleanouts on private lateral stubs installed as part of the project. These ties shall be from the two front property corners, a "nail-in-curb" projected from the property corner, or other surveyed points of reference that are permanent "controls" of the development and clearly labeled on the plans. Swing ties that cross over from sheet to sheet shall include a note and contain match lines on each sheet. Laterals shall not cross over from sheet to sheet.
 - For review, provide on the Asbuilt Drawings, the location of the installed public utility improvements within recorded easements. If revised easements are required by the District, a copy of revised and recorded easements shall be submitted together with the revised Asbuilt Drawings prior to approval.
 - Provide a written certification on the Asbuilt Plans (by the Project Surveyor or Project Engineer) that a field survey of existing as-constructed utility information has been performed and has been incorporated into the Asbuilt Drawings.
 - A copy of the Asbuilt Drawings shall be submitted to the District Manager for review prior to scheduling a final inspection.
 - Any incorrect or modified information shown on the Asbuilt Drawings found during the warranty period shall be corrected by the Developer and Project Engineer, and the corrected sheets shall be resubmitted.
 - Submit three (3) plan sets sized 24"x36".
 - Submit two (2) CDs containing both PDF and AutoCAD formatted drawings.
- Storm Water Detention / Retention Facilities - Certification
 - A certification letter shall be stamped and signed by the Project Engineer that designed and approved storm water detention / retention improvements have been surveyed and meet the following criteria.
 - Volumes are equal to or greater than those designed and approved.
 - Provide cross sections of surveyed conditions demonstrating dimensions, measured slopes, and elevations.
 - Provide measured invert elevations of inlets and outlets, overflows, weirs, surface slopes, and other designed control features of the improvements are in compliance with the designed and approved plans.
 - Provide all grading features, spot elevations, and contours representing the "as constructed" conditions have been properly and accurately shown on the Asbuilt Drawings.
 - Certify that landscaping and irrigation, as designed and approved, has been properly and completely constructed.
 - A copy of the letter shall be submitted to the District Manager prior to scheduling a final inspection.

To be signed after review at Pre-Construction Meeting
Acknowledgement of Revision 6-2-2026

CONTRACTOR SIGNATURE _____

DATE _____

DEVELOPER SIGNATURE _____

DATE _____

DISTRICT ENGINEER SIGNATURE  _____
Brendan Thorpe, P.E.

STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
SPID CONSTRUCTION SPECS

231 West 800 South Salt Lake City, Utah 84101

Ward Engineering Group
Planning • Engineering • Surveying
PH: 801 - 487 - 8040

CLIENT: SPID
DWG: DETAILS - PHASE 2.DWG
JOB No: 4802-SPID238-22
DATE: 2022 DEC 7

DRAWN BY: WARD
DESIGNED BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

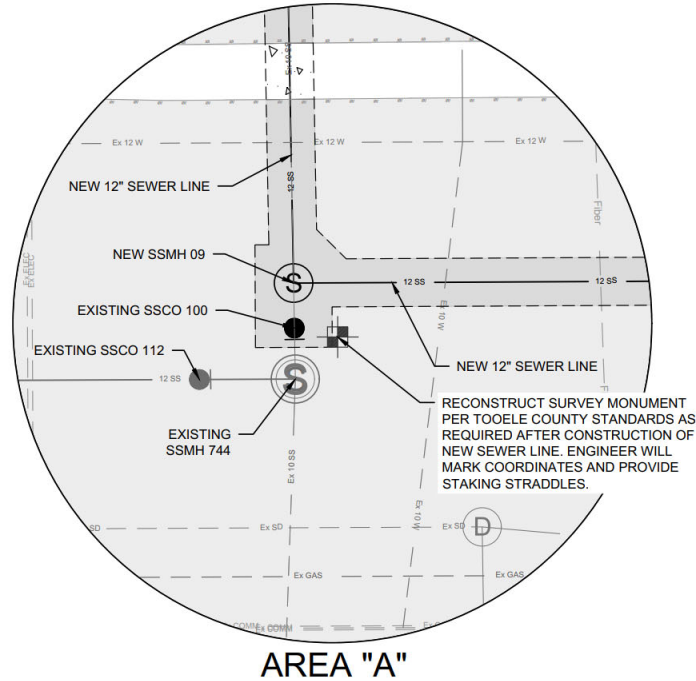
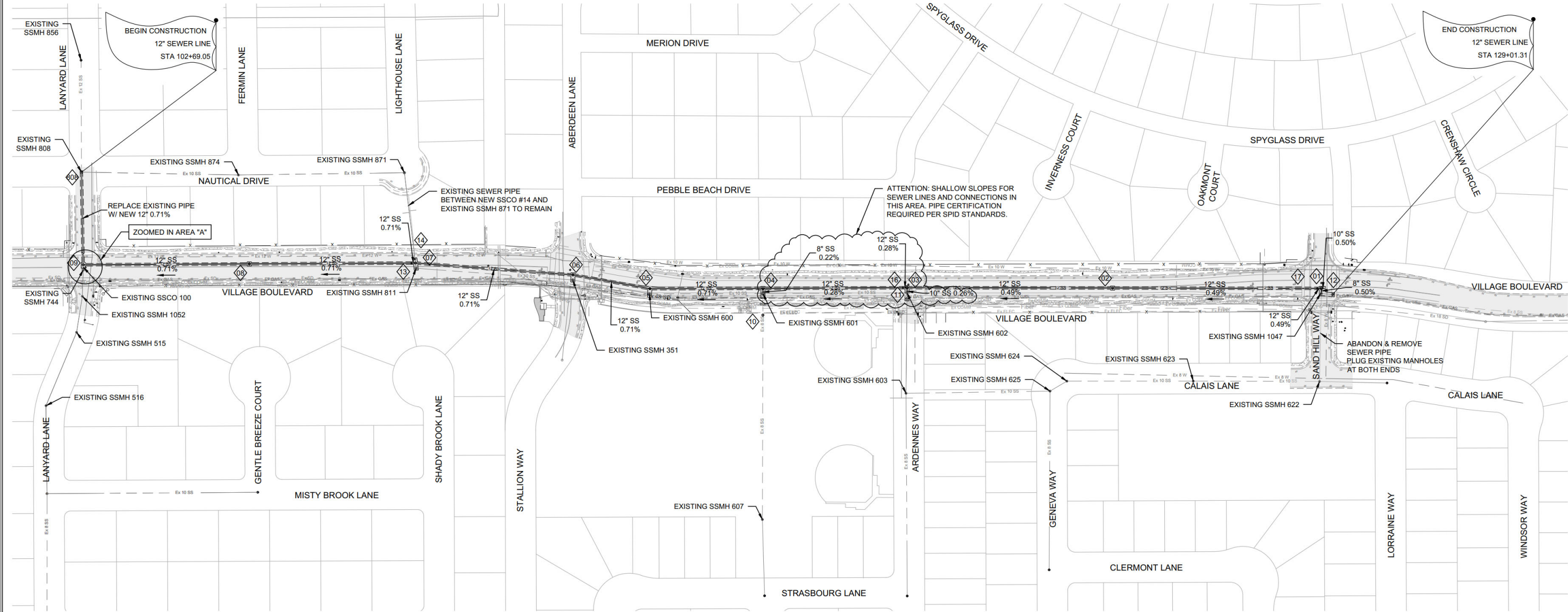
REVISIONS



SHEET

NT-01

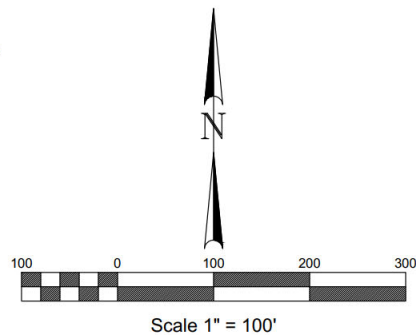




ORDER OF OPERATIONS:

- CONNECT TO EXISTING SSMH #808 AND CONSTRUCT DRY 12" SEWER LINE FROM EXISTING SSMH #808 TO SSMH #07, DO NOT CONNECT TO SSMH #07.
- TEMPORARILY BYPASS PUMP FROM EXISTING SSMH #811 TO SSCO #13, AND INSTALL NEW SSMH #07 AND CAP EXISTING 10" SEWER LINE FLOWING NORTH, STUB NEW 12" SEWER LINE TO EAST. COMMISSION DRY SEWER LINE PER SPID STANDARDS.
 - MAKE CONNECTION FROM SSCO #13 TO SSMH #07 AND DIVERT FLOW TO NEW 12" SEWER LINE.
 - INSTALL SSCO #14 AND REMOVE PIPE FROM SSCO #14 TO SSMH #07.
- CONSTRUCT DRY 12" SEWER LINE FROM SSMH #07 TO SSMH #03, DO NOT CONNECT TO SSMH #03. STUB AND CAP SEWER LINE TO THE SOUTH OF SSMH #04.
- COMMISSION NEW 12" SEWER LINE PER SPID STANDARDS.
 - LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #11.
 - INSTALL NEW SSMH #11 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #11 TO SSCO #16.
 - INSTALL NEW SSMH #03. STUB NEW 12" SEWER LINE TO THE EAST.
 - REMOVE EXISTING SSMH #602, CAP AND PROTECT FLOW LINE WEST (FROM DIRT AND DEBRIS).
 - CONNECT SSMH #03 TO EXISTING 10" SEWER PIPE SOUTH OF REMOVED SSMH #602.
 - REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.
- LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #10.
 - INSTALL NEW SSMH #10 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #10 TO SSMH #04.
 - REMOVE EXISTING SSMH #601, CAP AND PROTECT FLOW LINE WEST (FROM DIRT AND DEBRIS).
 - CONNECT SSMH #04 TO EXISTING 8" SEWER PIPE SOUTH OF REMOVED SSMH #601.
 - REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.

- CONNECT TO EAST STUB OF SSMH #03 AND CONSTRUCT DRY 12" SEWER LINE FROM SSMH #03 TO SSMH #01, DO NOT CONNECT TO SSMH #01. COMMISSION SEWER LINE PER SPID STANDARDS.
- LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #12.
 - INSTALL NEW SSMH #12 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #12 TO SSCO #17. WORK WITH TOOELE COUNTY ROAD DEPARTMENT FOR TEMPORARY DETOUR OF ACCESS TO SAND HILL WAY.
 - RECONSTRUCT EXISTING SSMH #1047 WITH A "90" BEND" TROUGH (FROM EAST TO NORTH), AND GROUT AND SEAL FLOW LINE SOUTH.
 - CONNECT SSMH #01 TO EXISTING SSMH #1047 WITH NEW 8" SEWER PIPE.
 - REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.
 - VERIFY THAT NO SEWER LATERALS FOR 241 EAST AND 263 EAST CALAIS LANE CONNECT TO THE SEWER LINE FROM EXISTING SSMH #1047 TO EXISTING SSMH #622.
 - GROUT & SEAL FLOW LINE NORTH OF EXISTING SSMH #622, AND ABANDON SEWER LINE.
 - RETURN TO SSMH #811 AND SSMH #351 (SHEET OP-03) AND SSMH #600 (SHEET OP-04), AND ABANDON EXISTING MANHOLES AND EXISTING SEWER LINE PER SPID STANDARDS.



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
OVERALL SITE PLAN

231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

CLIENT: SPID
DWG: UTILITY MAP - PHASE 2.DWG
JOB No: 4802-SPID238-22
DRAWN BY: WARD
DESIGNED BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

DRAWN BY: WARD
DESIGNED BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

REVISIONS

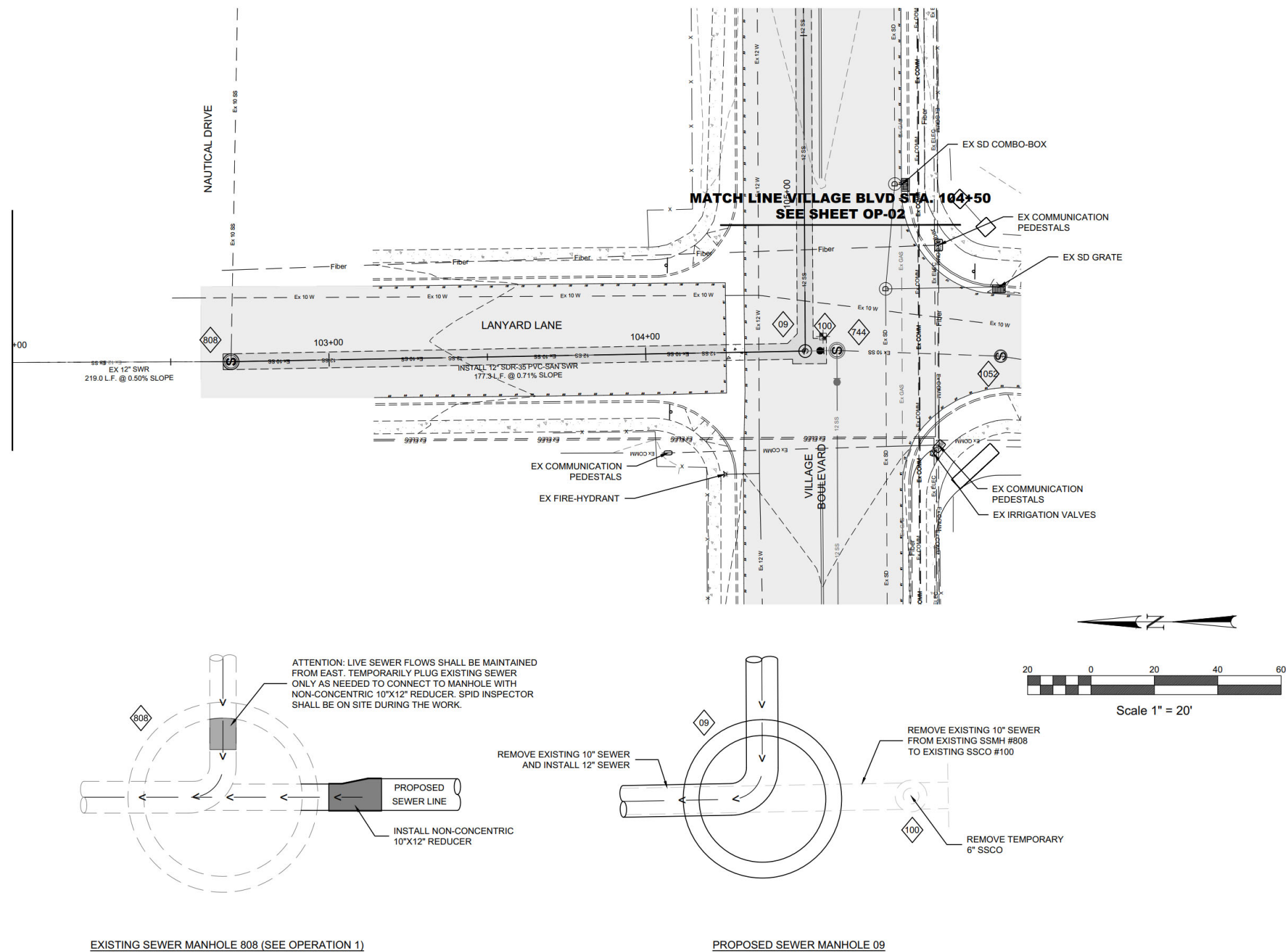


SHEET

SP-01

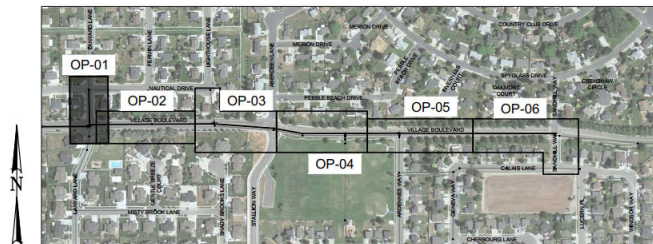


CALL BEFORE YOU DIG.
IT'S FREE &
IT'S THE LAW
(TOLL-FREE)
1-800-662-4111
208-2100
(SALT LAKE METRO)
148 EAST 13200 SOUTH
PO BOX 1517



ORDER OF OPERATIONS:

- 1. CONNECT TO EXISTING SSMH #808 AND CONSTRUCT DRY 12" SEWER LINE FROM EXISTING SSMH #808 TO SSMH #07, DO NOT CONNECT TO SSMH #07.
(SEE SHEET OP-03)**



**STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
ORDER OF OPERATIONS**

2231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
 Planning • Engineering • Surveying
 PH: 801 . 487 . 8040



CLIENT: SPID
DWG: EAST - ORDER OF
OPERATIONS.DWG
JOB No: 4802-SPID238-22

DRAWN BY: WARD
DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

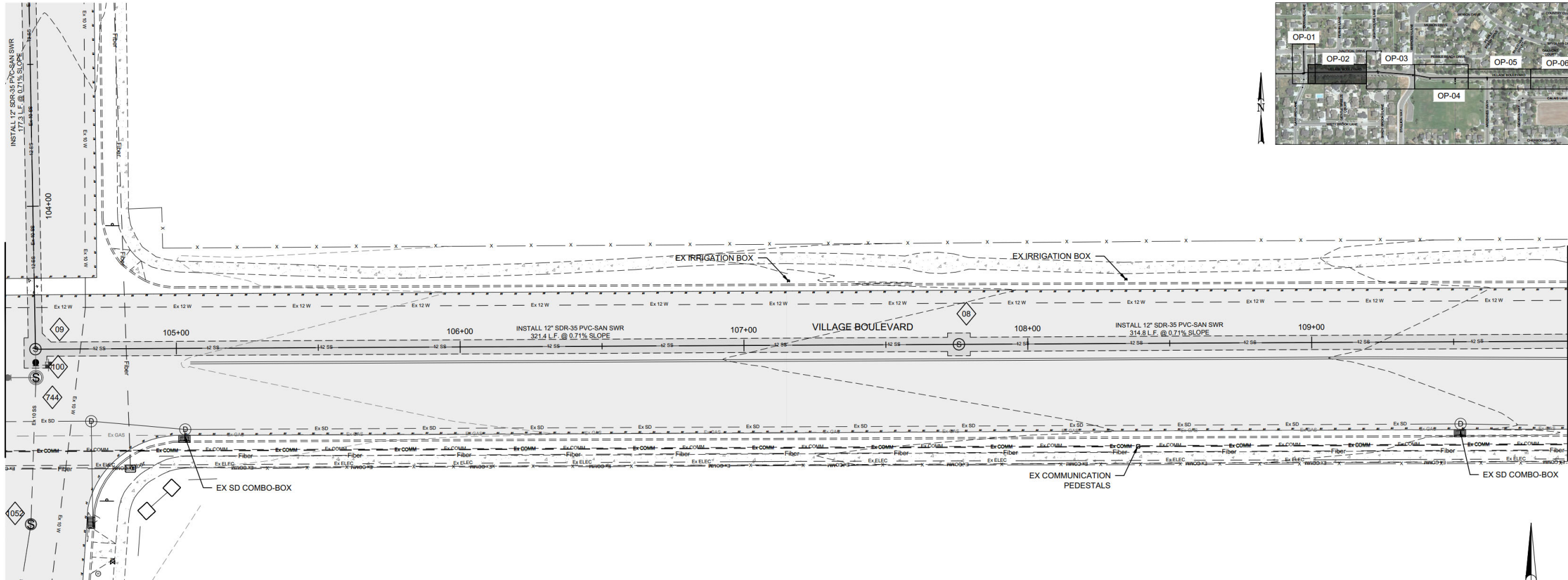
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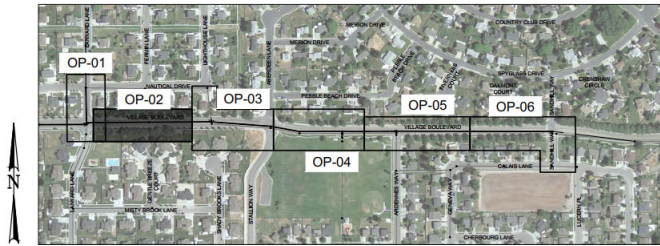
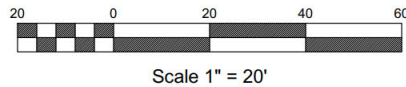
OP-01



MATCH LINE VILLAGE BLVD STA. 104+50
SEE SHEET OP-01



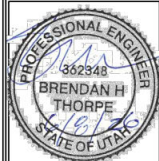
MATCH LINE VILLAGE BLVD STA. 110+00
SEE SHEET OP-03



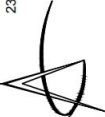
CLIENT: SPID
DWG: EAST - ORDER OF
OPERATIONS.DWG
JOB No: 4802-SPID238-22
DO NOT SCALE DRAWINGS. DRAWING IS BASED UPON
PLAN 22-2434-1. DIMENSIONS AND NOTES TAKE PRECEDENCE.

DRAWN BY: **WARD**
DESIGN BY: **WARD**
CHECKED BY: **WARD**
DATE: 2022 DEC 7

REVISIONS	

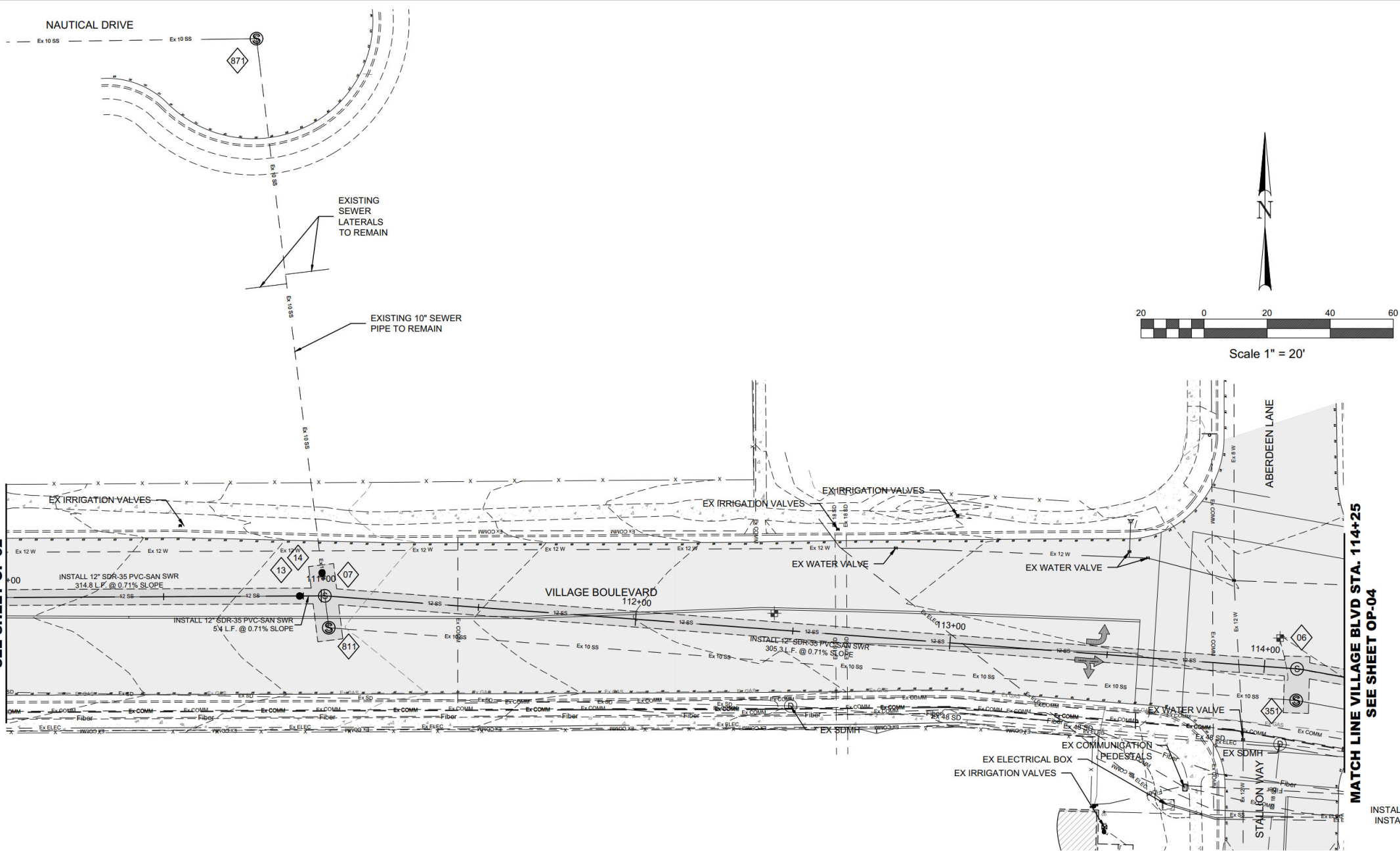


SHEET
OP-02

231 West 800 South Salt Lake City, Utah 84101

Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
ORDER OF OPERATIONS

MATCH LINE VILLAGE BLVD STA. 110+00
SEE SHEET OP-02

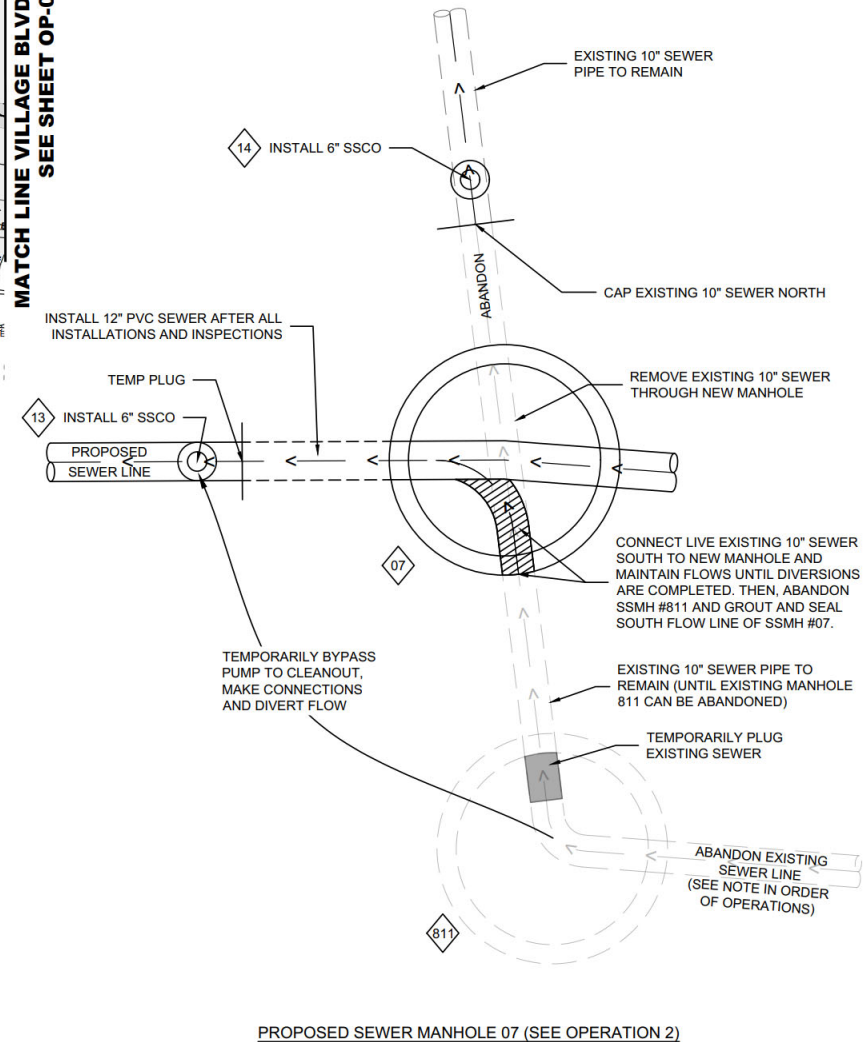


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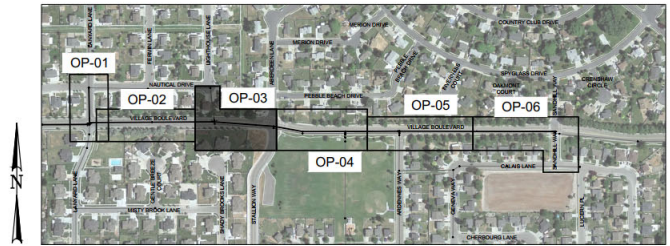
2.
 - a.) TEMPORARILY BYPASS PUMP FROM EXISTING SSMH #811 TO SSCO #13, AND INSTALL NEW SSMH #07 AND CAP EXISTING 10" SEWER LINE FLOWING NORTH, STUB NEW 12" SEWER LINE TO EAST.
 - b.) COMMISSION DRY SEWER LINE PER SPID STANDARDS.
 - c.) MAKE CONNECTION FROM SSCO #13 TO SSMH #07 AND DIVERT FLOW TO NEW 12" SEWER LINE.
 - d.) INSTALL SSCO #14 AND REMOVE PIPE FROM SSCO #14 TO SSMH #07.
3.
 - a.) CONSTRUCT DRY 12" SEWER LINE FROM SSMH #07 TO SSMH #03, DO NOT CONNECT TO SSMH #03.
 - b.) STUB AND CAP SEWER LINE TO THE SOUTH OF SSMH #04. (SEE SHEET OP-05)

NOTE: ABANDON EXISTING SSMH #811 AND SSMH #351 WHEN ALL SEWER DIVERSIONS ARE COMPLETED. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

MATCH LINE VILLAGE BLVD STA. 114+25
SEE SHEET OP-04



PROPOSED SEWER MANHOLE 07 (SEE OPERATION 2)



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
ORDER OF OPERATIONS

231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

CLIENT: SPID
DWG: EAST - ORDER OF OPERATIONS.DWG
JOB No: 4802-SPID238-22
DATE: 2023 DEC 7

DRAWN BY: WARD
DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2023 DEC 7

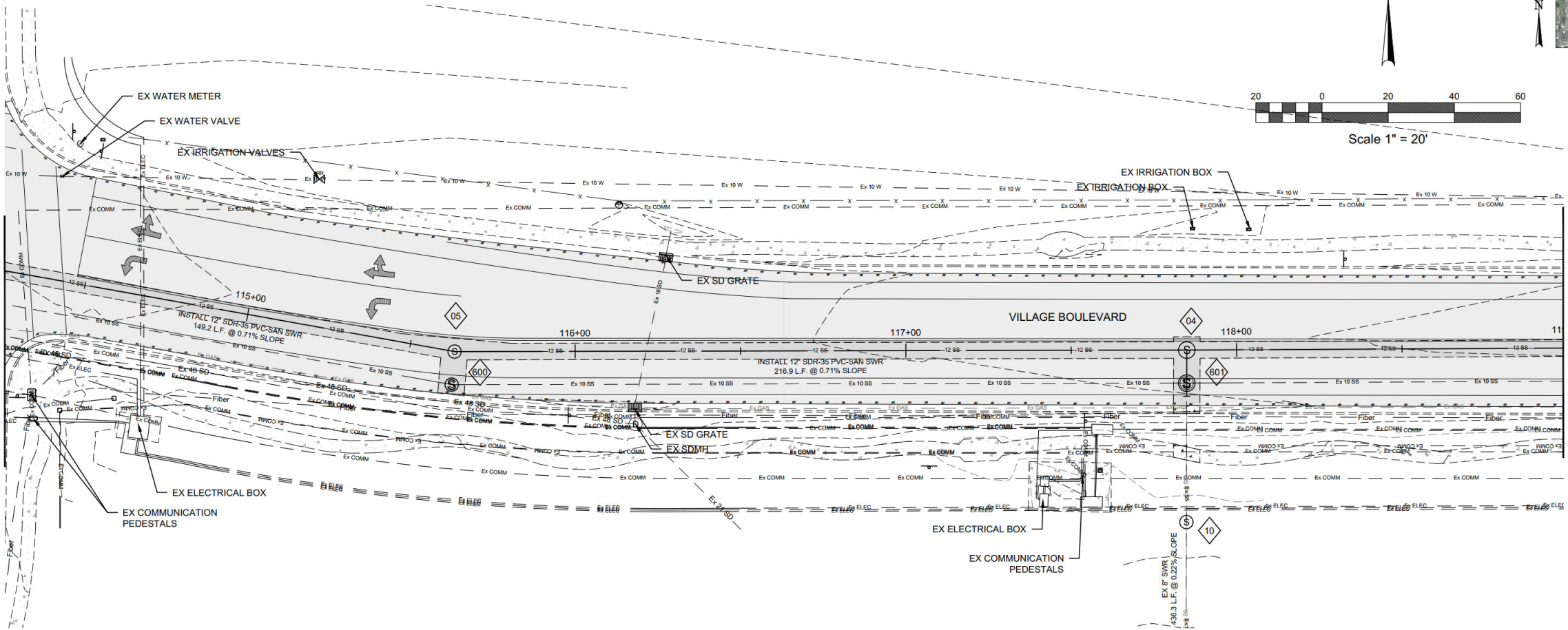
REVISIONS



SHEET

OP-03

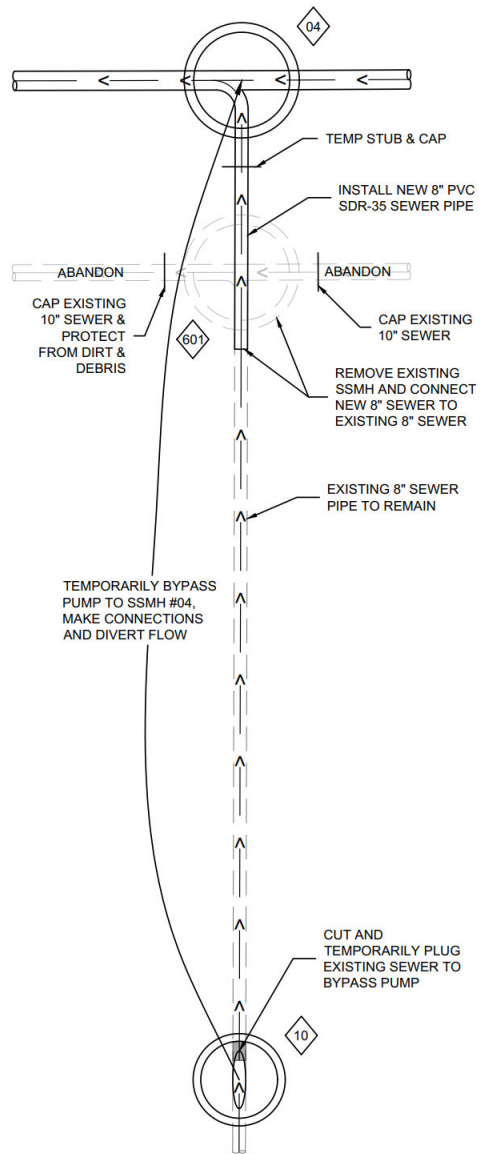
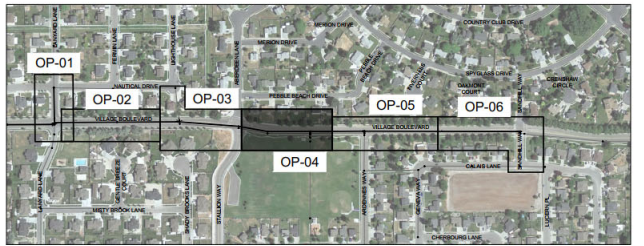
MATCH LINE VILLAGE BLVD STA. 114+25
SEE SHEET OP-03



ORDER OF OPERATIONS:

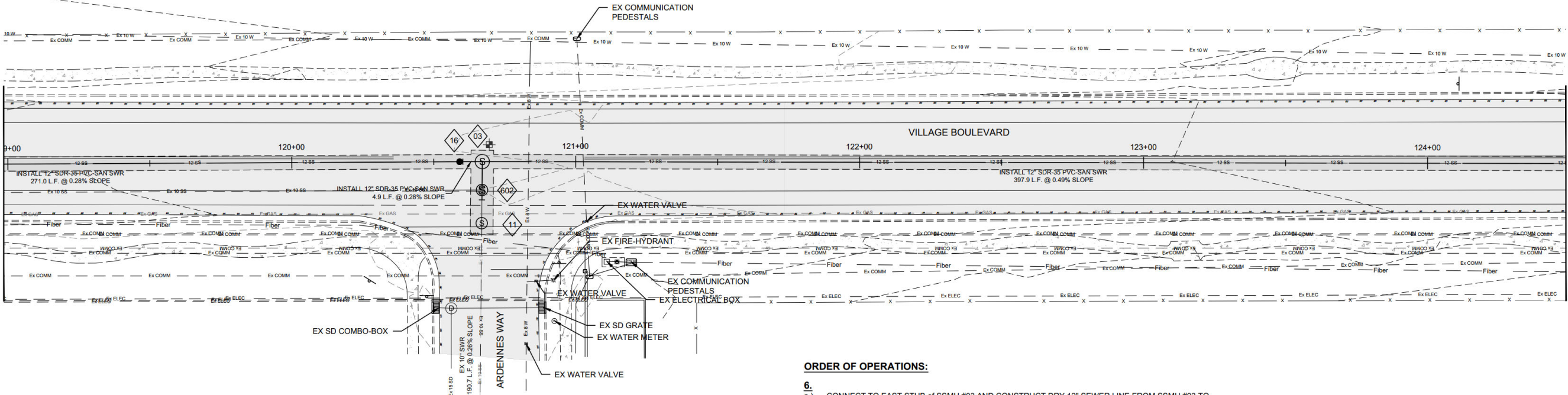
- 5.**
- LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #10.
 - INSTALL NEW SSMH #10 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #10 TO SSMH #04.
 - REMOVE EXISTING SSMH #601, CAP AND PROTECT FLOW LINE WEST (FROM DIRT AND DEBRIS).
 - CONNECT SSMH #04 TO EXISTING 8" SEWER PIPE SOUTH OF REMOVED SSMH #601.
 - REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.
(SEE SHEET OP-05)

NOTE: ABANDON EXISTING SSMH #600 WHEN ALL SEWER DIVERSIONS ARE COMPLETED. SEE PLAN AND PROFILE SHEETS FOR ADDITIONAL INFORMATION.

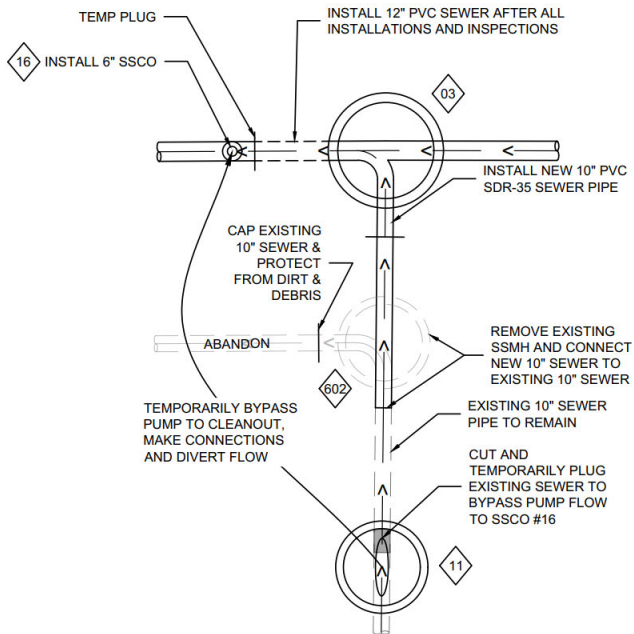


PROPOSED SEWER MANHOLE 04 (SEE OPERATION 5)

MATCH LINE VILLAGE BLVD STA. 119+00
SEE SHEET OP-04



MATCH LINE VILLAGE BLVD STA. 124+50
SEE SHEET OP-06



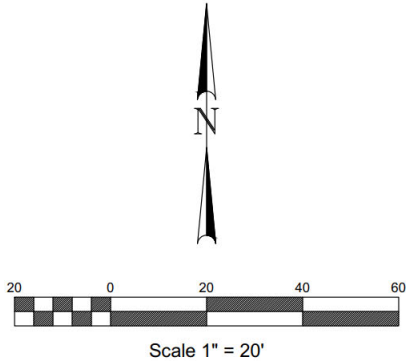
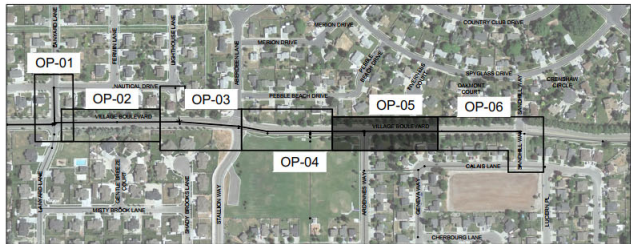
PROPOSED SEWER MANHOLE 03 (SEE OPERATION 4)

ORDER OF OPERATIONS:

6. a.) CONNECT TO EAST STUB of SSMH #03 AND CONSTRUCT DRY 12" SEWER LINE FROM SSMH #03 TO SSMH # 01, DO NOT CONNECT TO SSMH #01.
 - b.) COMMISSION SEWER LINE PER SPID STANDARDS.
- (SEE SHEET OP-06)

ORDER OF OPERATIONS:

4. a.) COMMISSION NEW 12" SEWER LINE PER SPID STANDARDS.
 - b.) LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #11.
 - c.) INSTALL NEW SSMH #11 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #11 TO SSCO #16.
 - d.) INSTALL NEW SSMH #03. STUB NEW 12" SEWER LINE TO THE EAST.
 - e.) REMOVE EXISTING SSMH #602, CAP AND PROTECT FLOW LINE WEST (FROM DIRT AND DEBRIS).
 - f.) CONNECT SSMH #03 TO EXISTING 10" SEWER PIPE SOUTH OF REMOVED SSMH #602.
 - g.) REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.
- (SEE SHEET OP-04)



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
ORDER OF OPERATIONS

231 West 800 South Salt Lake City, Utah 84101
Ward Engineering Group
Planning • Engineering • Surveying
PH: 801.487.8040

CLIENT: SPID
DWG: EAST - ORDER OF OPERATIONS.DWG
JOB No: 4802-SPID238-22
DATE: 6/9/2026
DRAWN BY: WARD
DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2022 DEC 7

REVISIONS

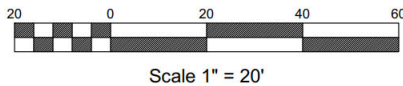
PROFESSIONAL ENGINEER
BRENDAN H. THORPE
STATE OF UTAH
362348

SHEET

OP-05

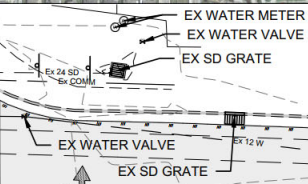
FILENAME: W:\SPID\SPID 2023 Village Blvd Design\Village Blvd Sewer Trunk Line\engineering\Design\East - Order of Operations.dwg

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(SALT LAKE METRO)
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PO BOX 1517

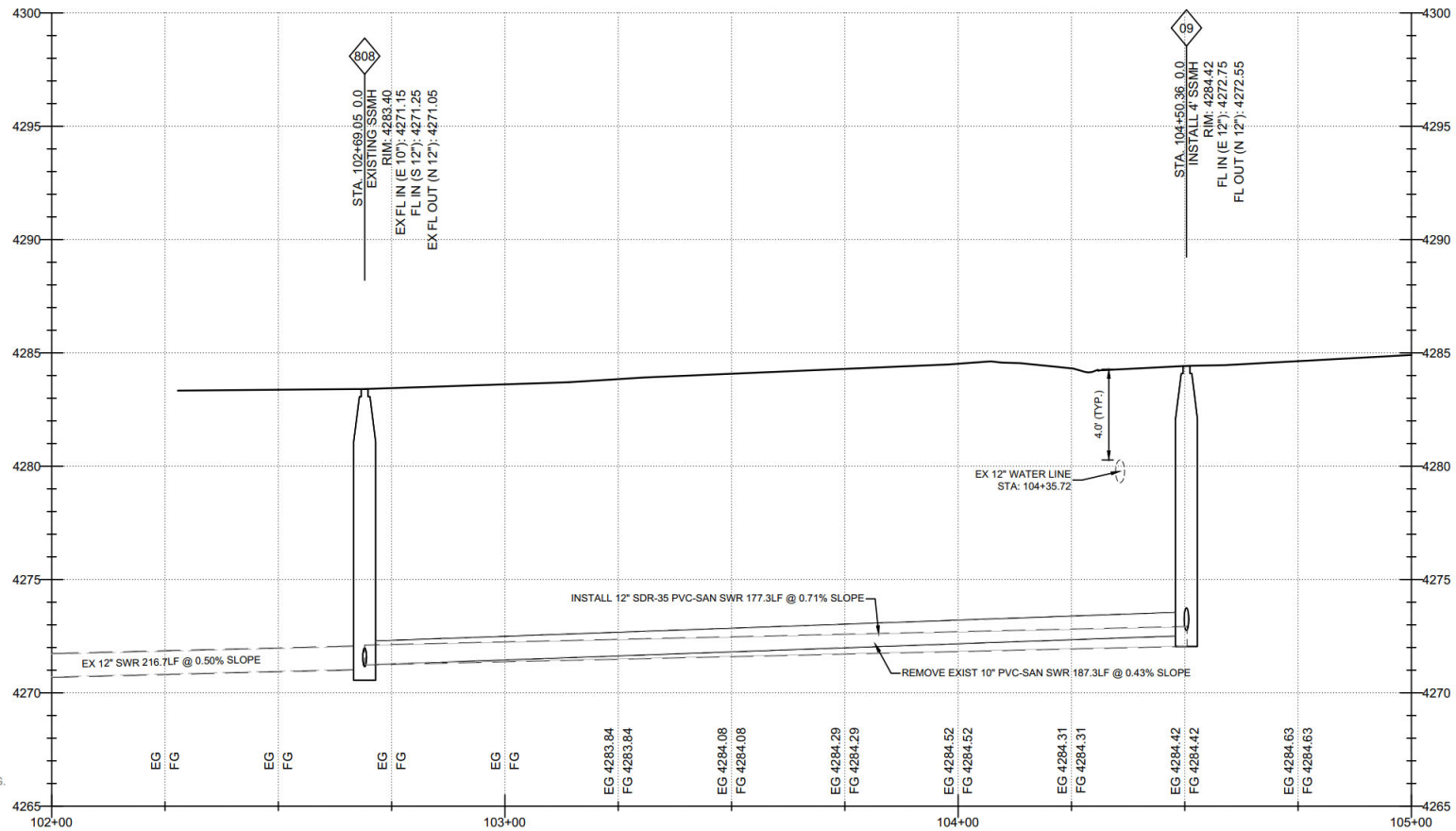


- a.) LOCATE EXISTING SUBSURFACE UTILITIES AND CONFIRM LOCATION OF PROPOSED SSMH #12.
- b.) INSTALL NEW SSMH #12 WITH CAST-IN-PLACE BASE. CUT AND REMOVE TOP OF PIPE FOR PUMPING ACCESS. TEMPORARILY BYPASS PUMP FROM SSMH #12 TO SSCO #17. WORK WITH TOOLE COUNTY ROAD DEPARTMENT FOR TEMPORARY DETOUR OF ACCESS TO SAND HILL WAY.
- c.) RECONSTRUCT EXISTING SSMH #1047 WITH A "90° BEND" TROUGH (FROM EAST TO NORTH), AND GROUT AND SEAL FLOW LINE SOUTH.
- d.) CONNECT SSMH #01 TO EXISTING SSMH #1047 WITH NEW 8" SEWER PIPE.
- e.) REMOVE TEMPORARY BYPASS PUMPING AND DIVERT FLOW.
- f.) VERIFY THAT NO SEWER LATERALS FOR 241 EAST AND 263 EAST CALAIS LANE CONNECT TO THE SEWER LINE FROM EXISTING SSMH #1047 TO EXISTING SSMH #622.
- g.) GROUT & SEAL FLOW LINE NORTH OF EXISTING SSMH #622, AND ABANDON SEWER LINE.
- h.) RETURN TO SSMH #811 AND SSMH #351 (SHEET OP-03) AND SSMH #600 (SHEET OP-04), AND ABANDON EXISTING MANHOLES AND EXISTING SEWER LINE PER SPID STANDARDS.

PROPOSED SEWER MANHOLE 01 (SEE OPERATION 7)



OP-06



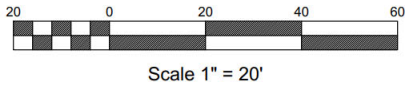
NOTES
1. CONTRACTOR SHALL VERIFY THE FLOW ELEVATION OF EXISTING MH #808 PRIOR TO COMMENCING CONSTRUCTION.

CONCRETE WATERWAY REPLACEMENT NOTE:
REMOVE (AT NEAREST JOINT OR SAWCUT) AND REPLACE CONCRETE WATERWAY IN KIND PER TOOELE COUNTY STANDARDS.

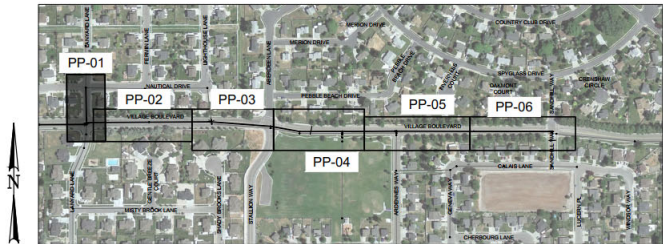
MATCH LINE VILLAGE BLVD STA. 104+50
SEE SHEET PP-02

STRIPING NOTE:
INSTALL 4" DOUBLE YELLOW PAINT (LN FT), SINGLE 12" WHITE PAINT (LN FT), AND (LEFT, RIGHT, THRU SYMBOL) MESSAGE PAINT (EACH). CONTRACTOR SHALL INSTALL THE LINEAR QUANTITY AND EACH MESSAGE PAINT AS DIRECTED BY TOOELE COUNTY ROAD DEPARTMENT INSPECTOR.

SAWCUT NOTE:
OWNER WILL PAY CONTRACTOR THE ENGINEER'S "NEAT LINE" QUANTITY AS DESIGNED ON THESE PLANS, REGARDLESS OF HOW MUCH ASPHALT CONTRACTOR CHOOSES TO REMOVE. SEE ALSO TOOELE COUNTY'S T-PATCH DETAIL (APWA 2012 VERSION - SEE SHEET DT-01). OWNER PAYS FOR "NEAT LINE" QUANTITIES FOR MILLING AND ASPHALT FILLING. ROTO MILLING EXTENTS ARE NOT SHOWN ON THESE PLANS.



- NOTES
- SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH 3/4" OR 1" ROCK.
 - REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
EAST 102+00 TO 104+50

231 West 800 South Salt Lake City, Utah 84101
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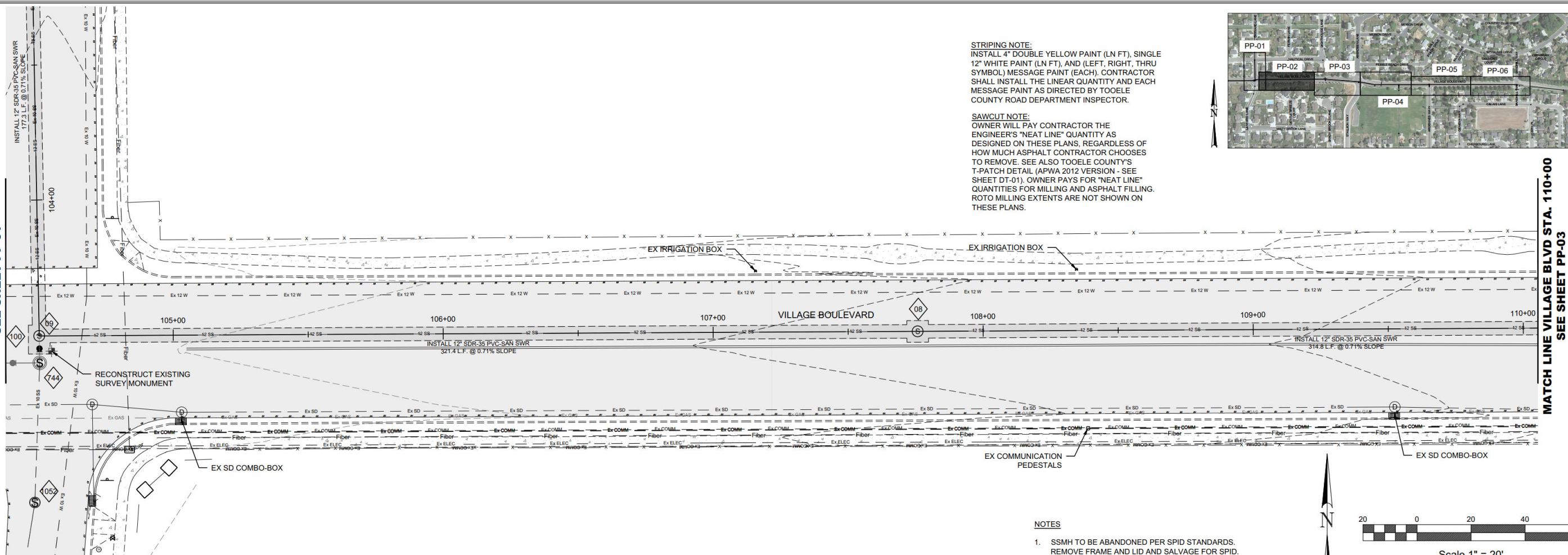
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DWG: EAST VILLAGE BLVD DWG
JOB No: 4802-SPID238-22
DATE: 2023 DEC 7

DRAWN BY: WARD
DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2023 DEC 7

REVISIONS

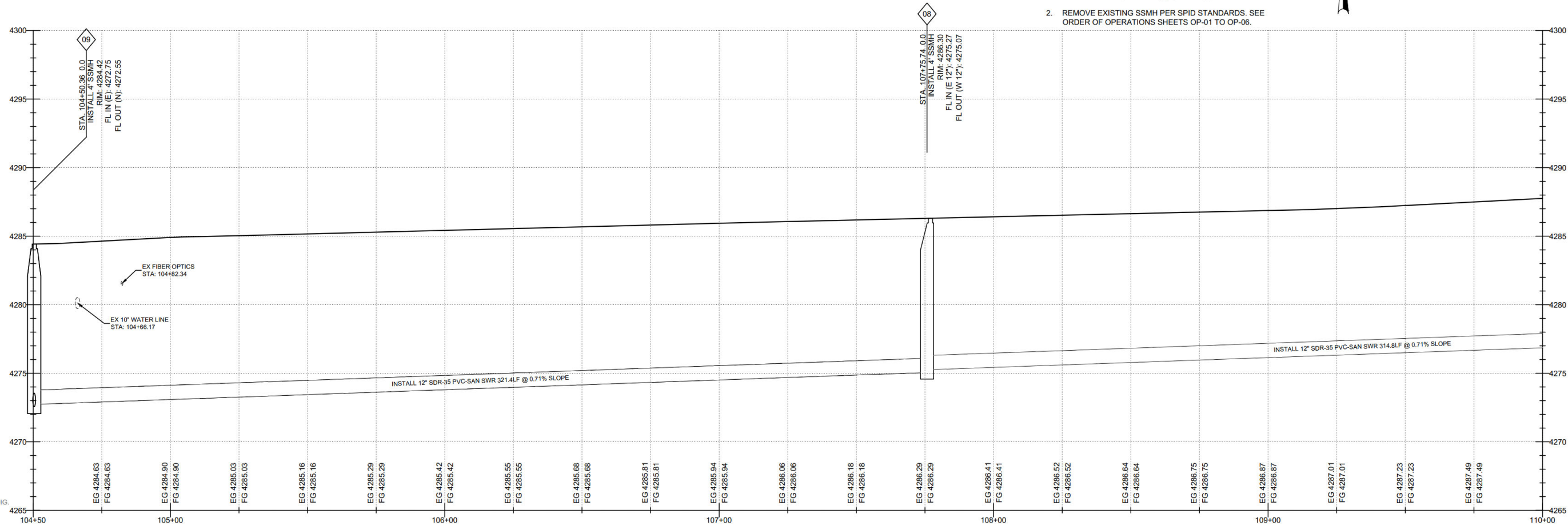


SHEET
PP-01

MATCH LINE VILLAGE BLVD STA. 104+50
SEE SHEET PP-01

NOTES

- SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH 3/4" OR 1" ROCK.
- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.

STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
EAST 104+50 TO 110+00

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PH: 801.487.8040

CLIENT: SPID
DWG: EAST VILLAGE BLVD DWG
JOB No: 4802-SPID238-22
DATE: 12/12/2023
DRAWN BY: B. THORPE
CHECKED BY: B. THORPE
DATE: 12/12/2023DRAWN BY: WARD
DESIGN BY: WARD
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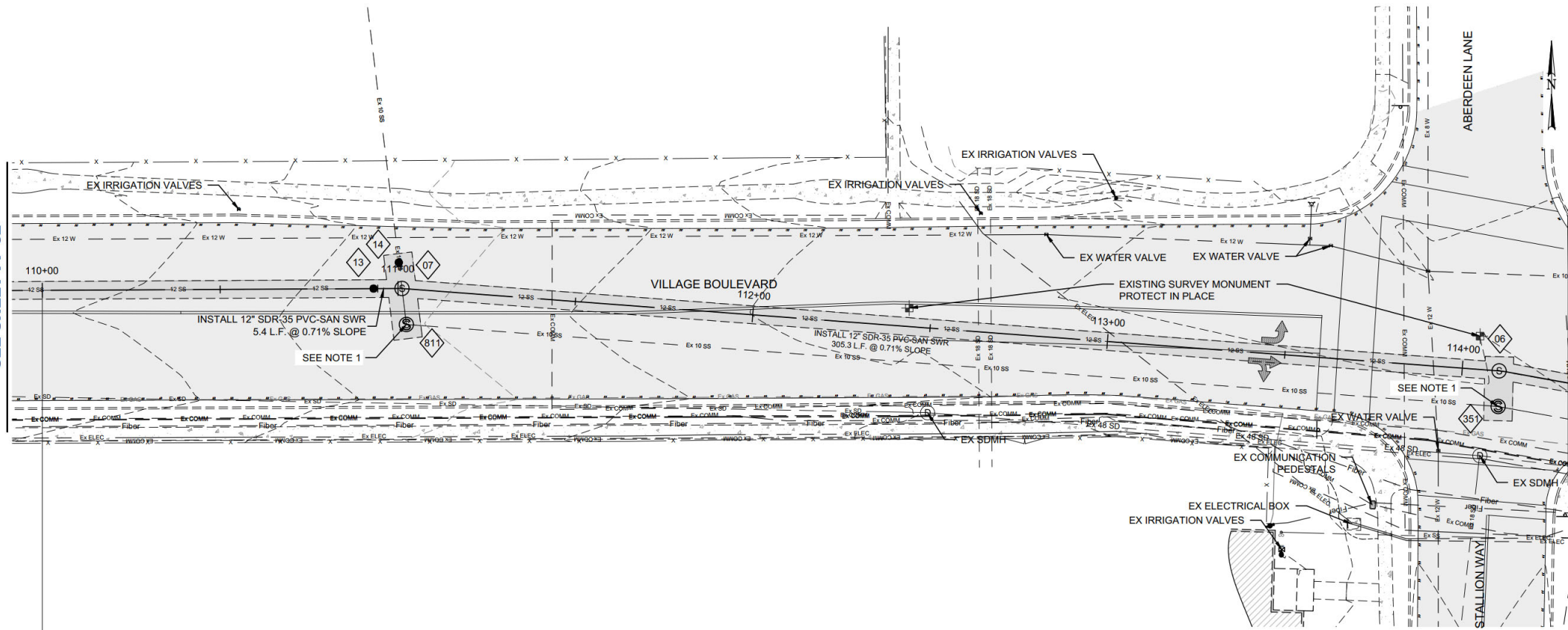


SHEET

PP-02



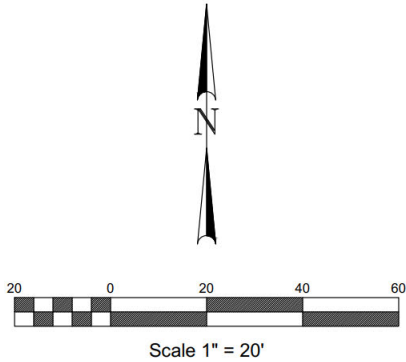
MATCH LINE VILLAGE BLVD STA. 110+00
SEE SHEET PP-02



MATCH LINE VILLAGE BLVD STA. 114+25
SEE SHEET PP-04

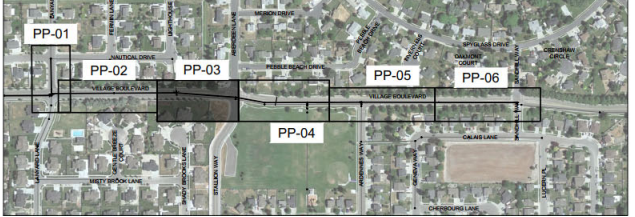
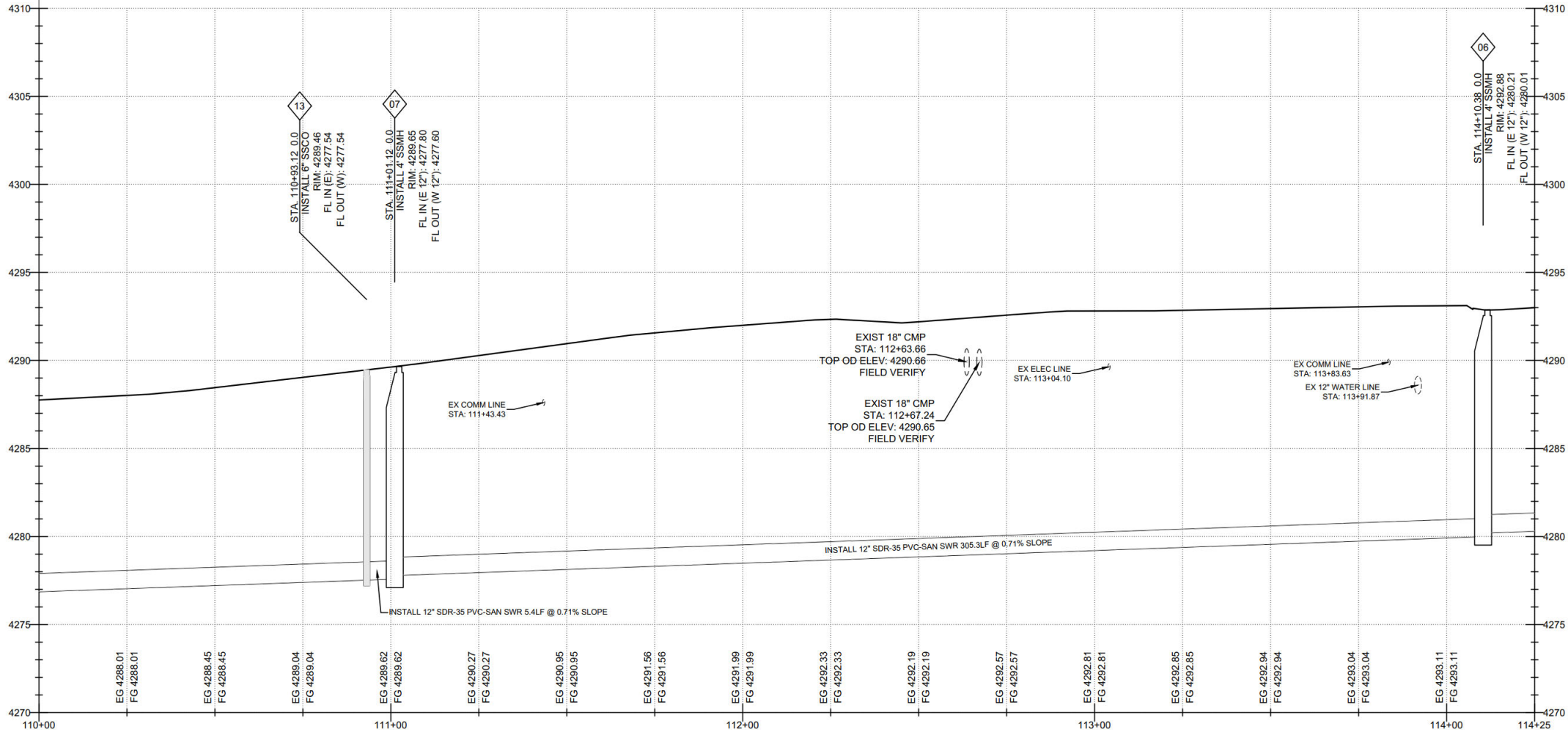
STRIPING NOTE:
INSTALL 4" DOUBLE YELLOW PAINT (LN FT), SINGLE 12" WHITE PAINT (LN FT), AND (LEFT, RIGHT, THRU SYMBOL) MESSAGE PAINT (EACH). CONTRACTOR SHALL INSTALL THE LINEAR QUANTITY AND EACH MESSAGE PAINT AS DIRECTED BY TOOELE COUNTY ROAD DEPARTMENT INSPECTOR.

SAWCUT NOTE:
OWNER WILL PAY CONTRACTOR THE ENGINEER'S "NEAT LINE" QUANTITY AS DESIGNED ON THESE PLANS, REGARDLESS OF HOW MUCH ASPHALT CONTRACTOR CHOOSES TO REMOVE. SEE ALSO TOOELE COUNTY'S T-PATCH DETAIL (APWA 2012 VERSION - SEE SHEET DT-01). OWNER PAYS FOR "NEAT LINE" QUANTITIES FOR MILLING AND ASPHALT FILLING. ROTO MILLING EXTENTS ARE NOT SHOWN ON THESE PLANS.



NOTES

- SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH 3/4" OR 1" ROCK.
- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
EAST 110+00 TO 114+25

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DWG: EAST VILLAGE BLVD DWG
JOB No: 4802-SPID238-22
DATE: 2023 DEC 7

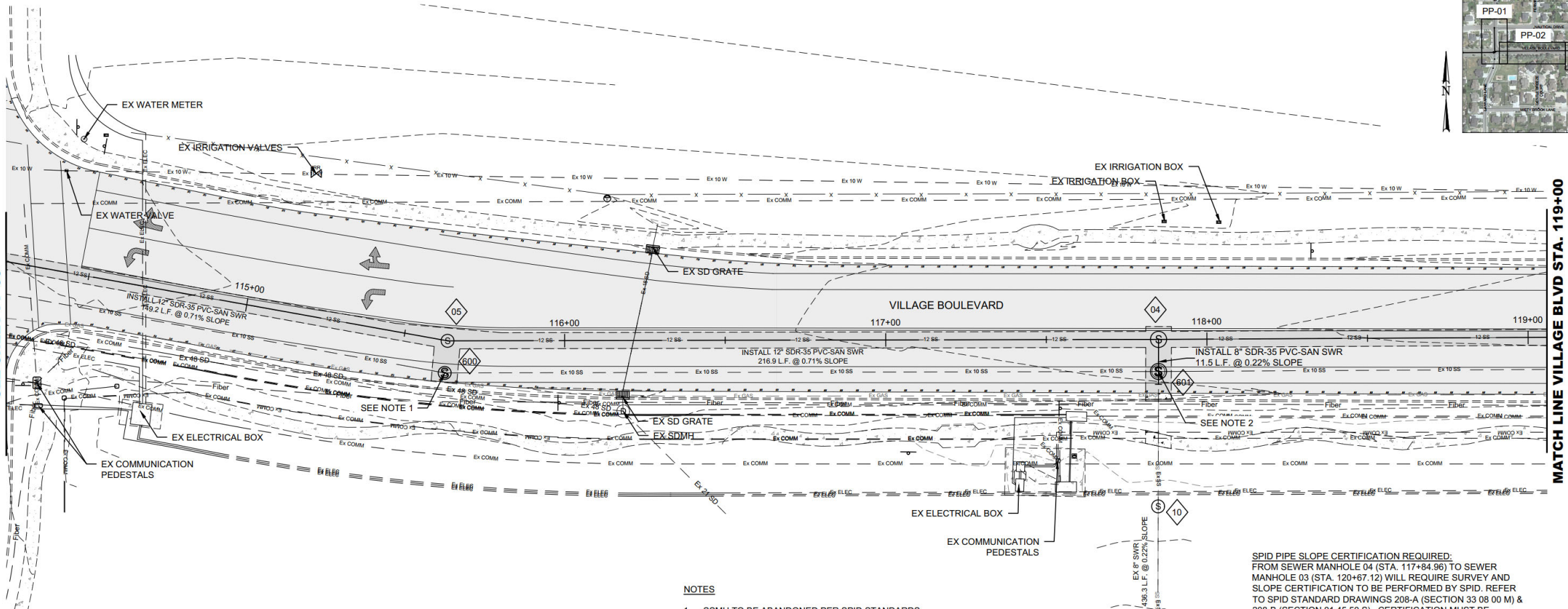
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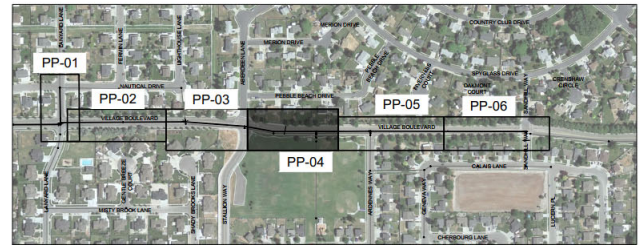
PP-03

MATCH LINE 1330 SOUTH STA. 114+25
SEE SHEET PP-03

NOTES

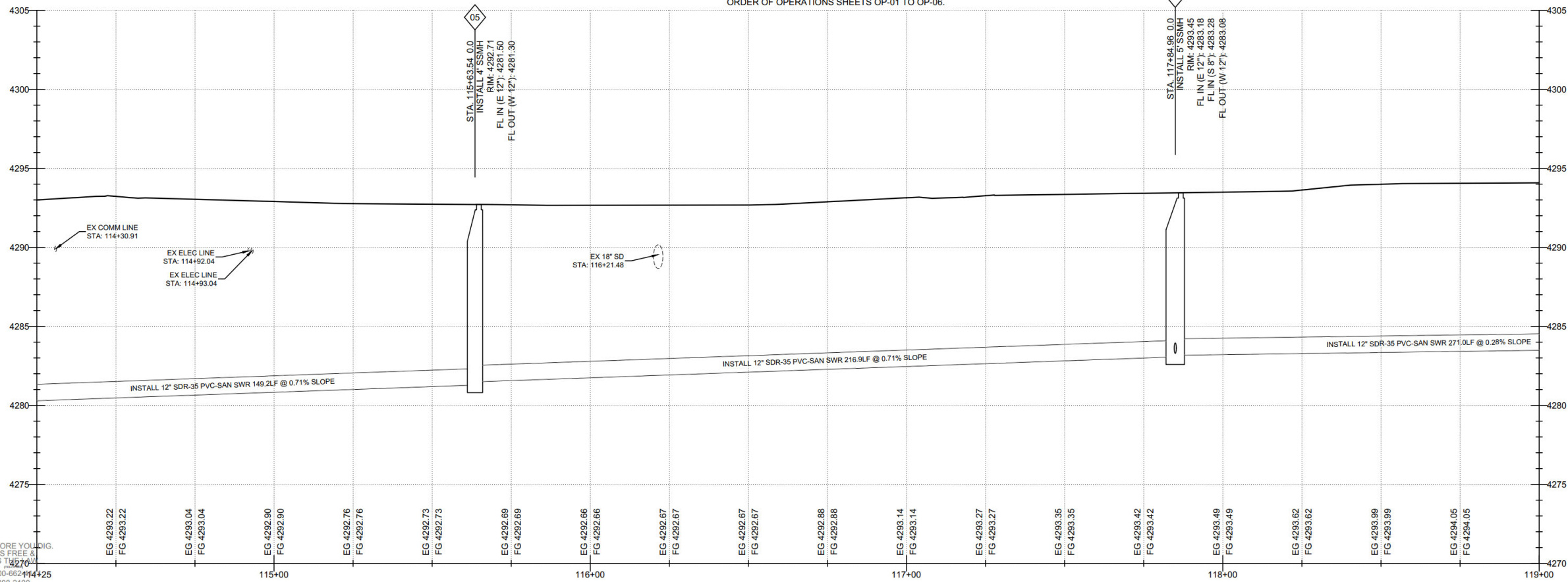
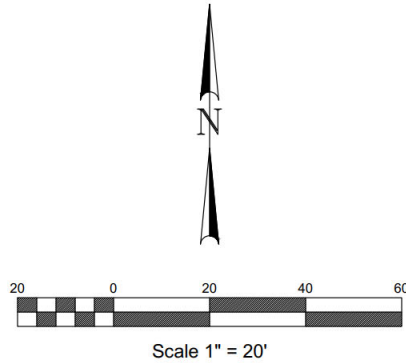
- SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH 3/4\"
- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.

SPID PIPE SLOPE CERTIFICATION REQUIRED:
FROM SEWER MANHOLE 04 (STA. 117+84.96) TO SEWER MANHOLE 03 (STA. 120+67.12) WILL REQUIRE SURVEY AND SLOPE CERTIFICATION TO BE PERFORMED BY SPID. REFER TO SPID STANDARD DRAWINGS 208-A (SECTION 33 08 00 M) & 208-B (SECTION 01 45 50 S). CERTIFICATION MUST BE COMPLETED AND ACCEPTED BY SPID FROM MANHOLE TO MANHOLE, PRIOR TO CONSTRUCTION OF ANY UPSTREAM SEWER BETWEEN THE NEXT MANHOLE TO MANHOLE.



STRIPING NOTE:
INSTALL 4\"

SAWCUT NOTE:
OWNER WILL PAY CONTRACTOR THE ENGINEER'S \"NEAT LINE\" QUANTITY AS DESIGNED ON THESE PLANS, REGARDLESS OF HOW MUCH ASPHALT CONTRACTOR CHOOSES TO REMOVE. SEE ALSO TOOELE COUNTY'S T-PATCH DETAIL (APWA 2012 VERSION - SEE SHEET DT-01). OWNER PAYS FOR \"NEAT LINE\" QUANTITIES FOR MILLING AND ASPHALT FILLING. ROTO MILLING EXTENTS ARE NOT SHOWN ON THESE PLANS.



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CLIENT: SPID
DWG: EAST VILLAGE BLVD DWG
JOB No: 4802-SPID238-22
DATE: 2023 DEC 7

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DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2023 DEC 7

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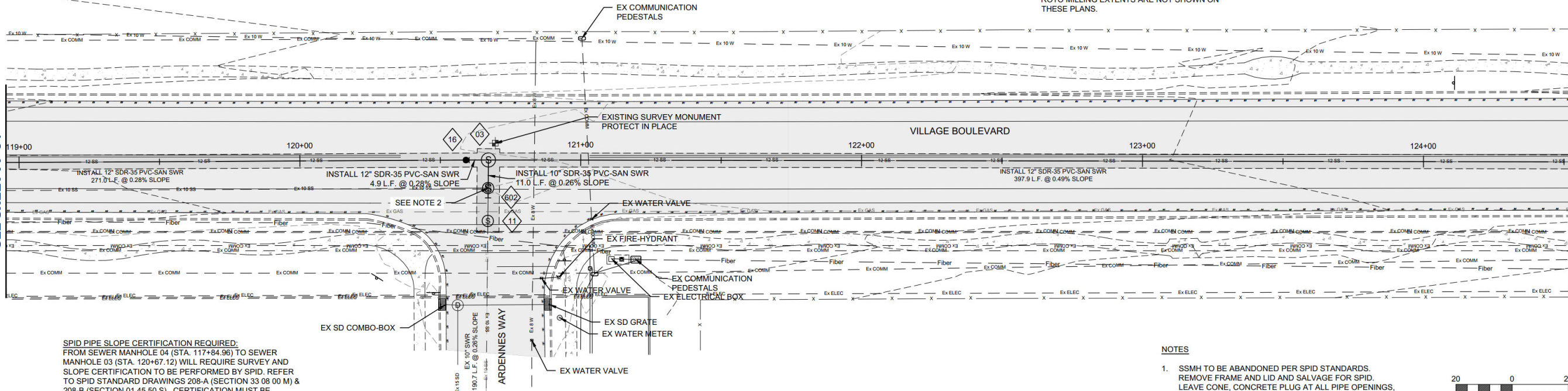
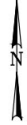
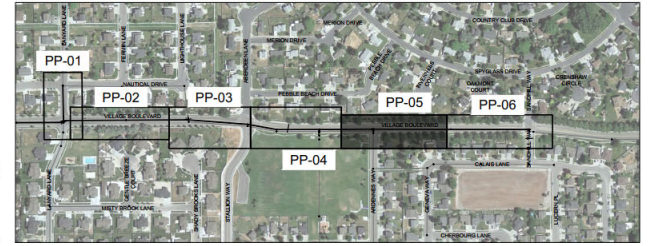
PP-04

MATCH LINE VILLAGE BLVD STA. 119+00
SEE SHEET PP-04

MATCH LINE VILLAGE BLVD STA. 124+50
SEE SHEET PP-06

STRIPING NOTE:
INSTALL 4" DOUBLE YELLOW PAINT (LN FT), SINGLE 12" WHITE PAINT (LN FT), AND (LEFT, RIGHT, THRU SYMBOL) MESSAGE PAINT (EACH). CONTRACTOR SHALL INSTALL THE LINEAR QUANTITY AND EACH MESSAGE PAINT AS DIRECTED BY TOOELE COUNTY ROAD DEPARTMENT INSPECTOR.

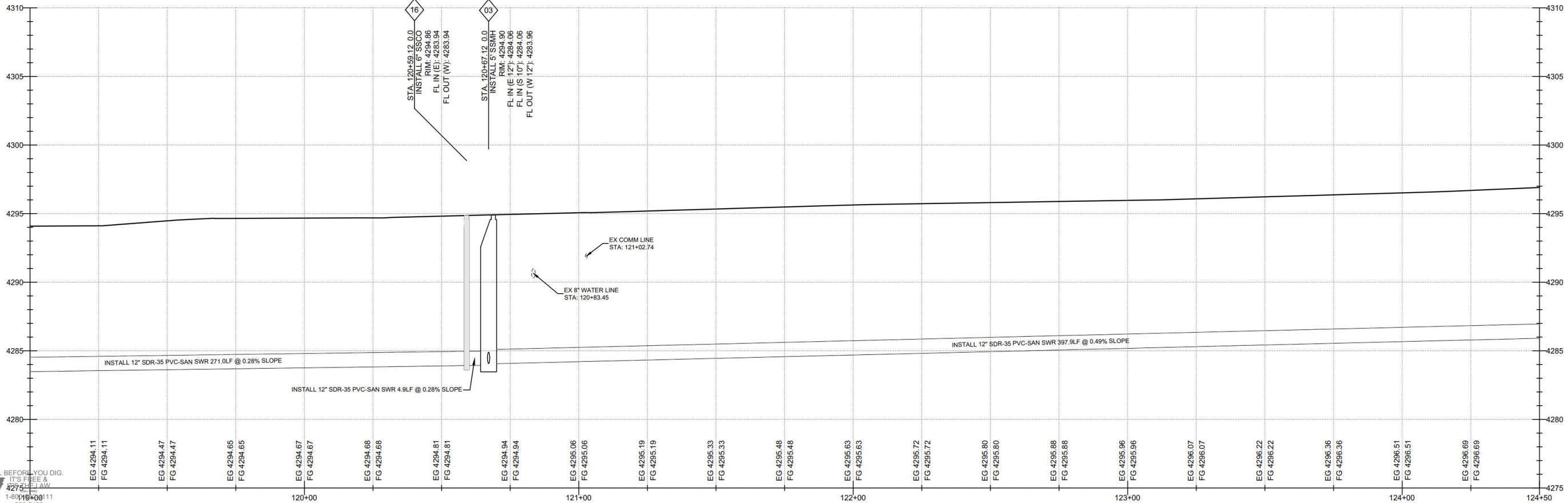
SAWCUT NOTE:
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NOTES

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- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.



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DATE: 2023 DEC 7

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DESIGN BY: WARD
CHECKED BY: WARD
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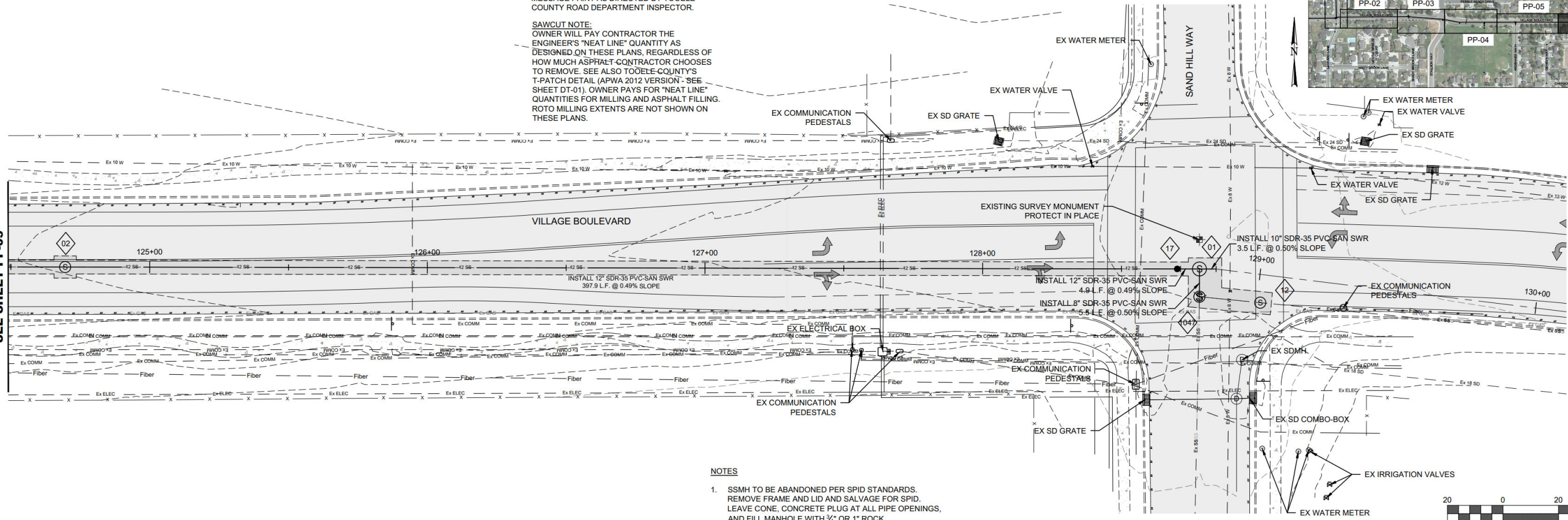
SHEET

PP-05

MATCH LINE VILLAGE BLVD STA. 124+50
SEE SHEET PP-05

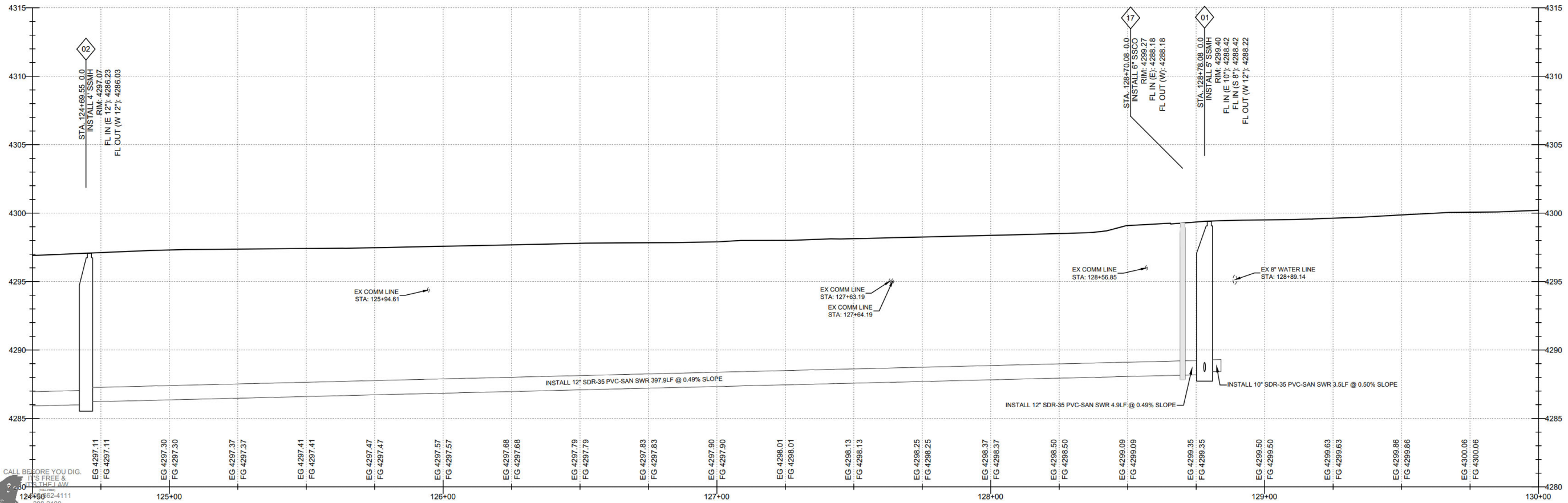
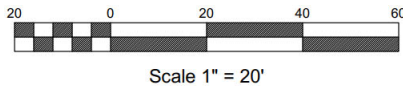
STRIPING NOTE:
INSTALL 4" DOUBLE YELLOW PAINT (LN FT), SINGLE
12" WHITE PAINT (LN FT), AND (LEFT, RIGHT, THRU
SYMBOL) MESSAGE PAINT (EACH). CONTRACTOR
SHALL INSTALL THE LINEAR QUANTITY AND EACH
MESSAGE PAINT AS DIRECTED BY TOOELE
COUNTY ROAD DEPARTMENT INSPECTOR.

SAWCUT NOTE:
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ENGINEER'S "NEAT LINE" QUANTITY AS
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TO REMOVE. SEE ALSO TOOELE COUNTY'S
T-PATCH DETAIL (APWA 2012 VERSION - SEE
SHEET DT-01). OWNER PAYS FOR "NEAT LINE"
QUANTITIES FOR MILLING AND ASPHALT FILLING.
ROTO MILLING EXTENTS ARE NOT SHOWN ON
THESE PLANS.

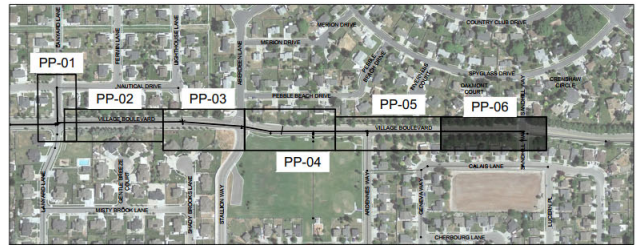


NOTES

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REMOVE FRAME AND LID AND SALVAGE FOR SPID.
LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS,
AND FILL MANHOLE WITH 3/4" OR 1" ROCK.
- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE
ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.



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EAST 124+50 TO 130+00

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Ward Engineering Group
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CLIENT: SPID
DWG: EAST VILLAGE BLVD DWG
JOB No: 4802-SPID238-22
DATE: 2023 DEC 7

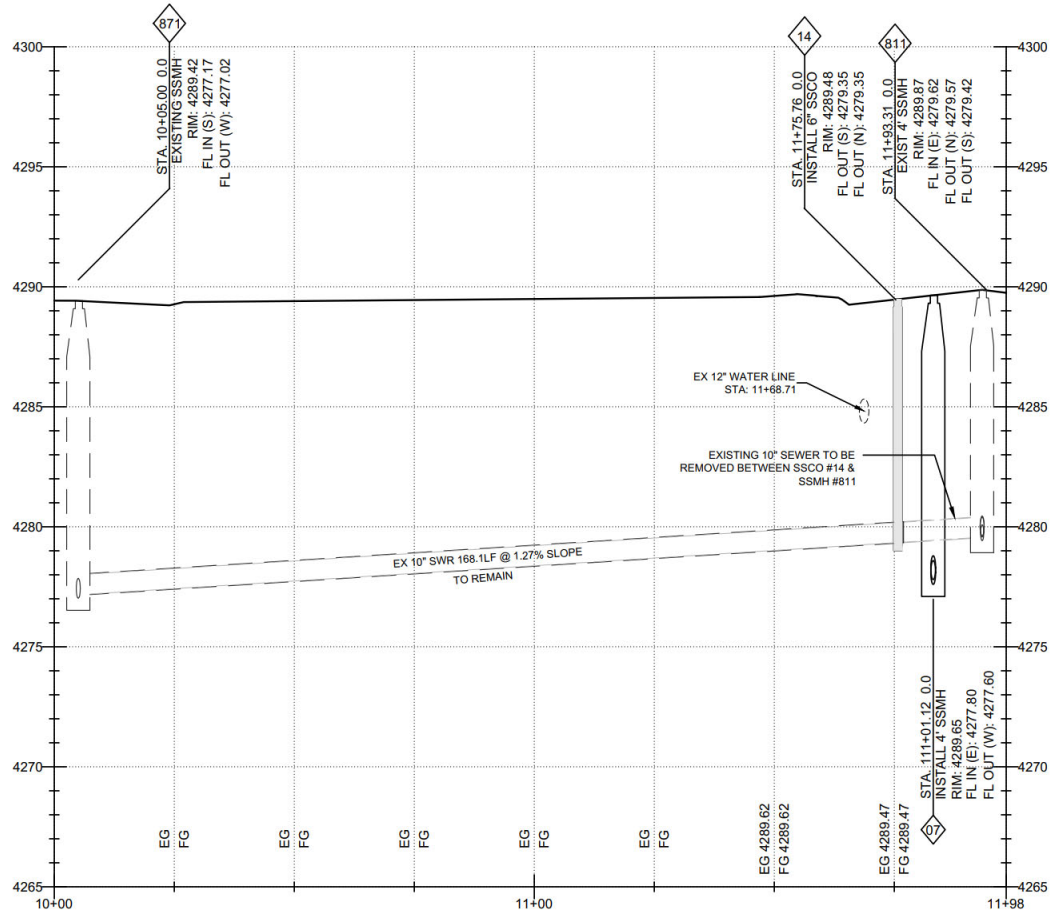
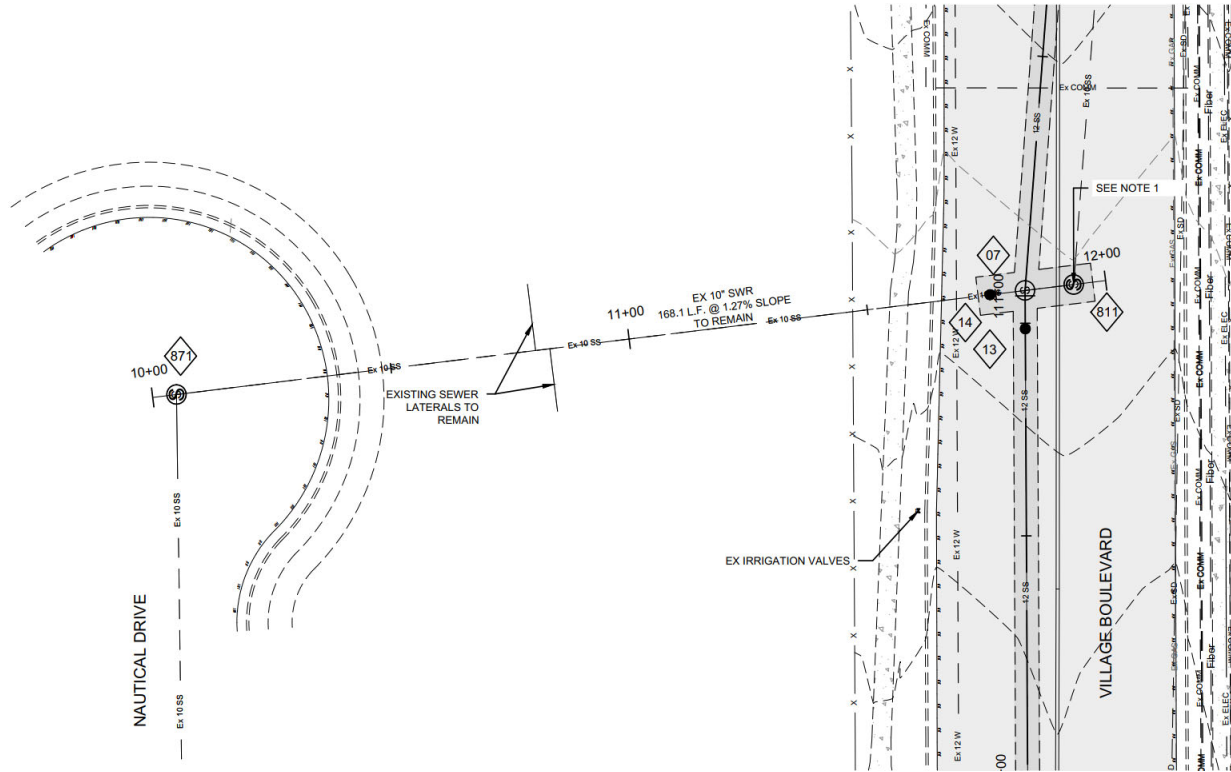
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DESIGN BY: WARD
CHECKED BY: WARD
DATE: 2023 DEC 7

REVISIONS



SHEET
PP-06

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(SALT LAKE METRO)
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OARBY, UT 84055-0757



NOTES

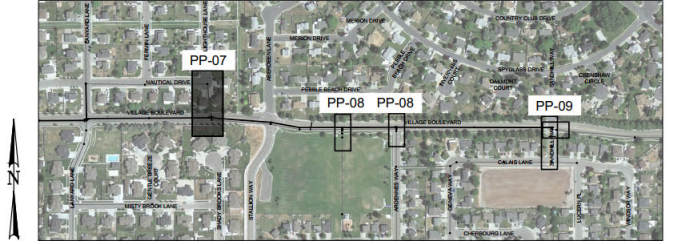
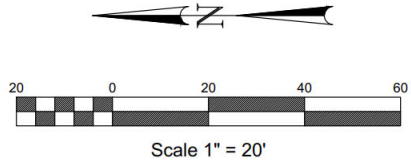
1. SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH ¾" OR 1" ROCK.
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STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
EAST 10+00 TO 12+00

231 West 800 South Salt Lake City, Utah 84101

Ward Engineering Group
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PH: 801.487.8040



CLIENT: SPID

DWG: EAST VILLAGE BLVD - 2.DWG

JOB No: 4802-SPID238-22

DRAWN BY: WARDDESIGN BY: WARD

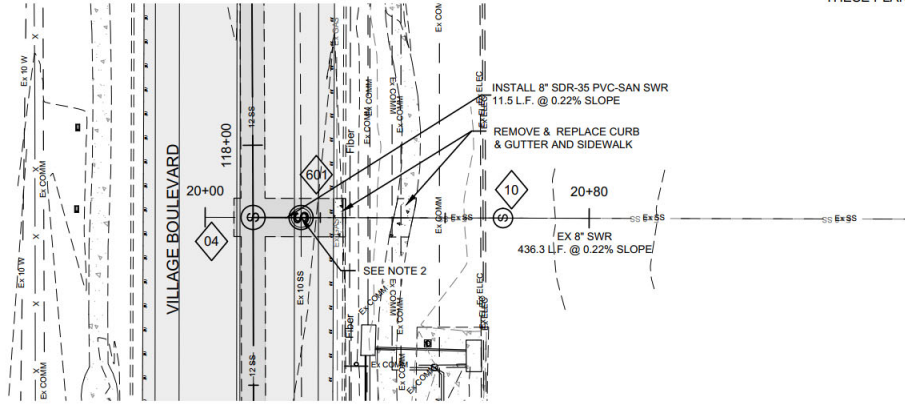
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DATE: 2022 DEC 7

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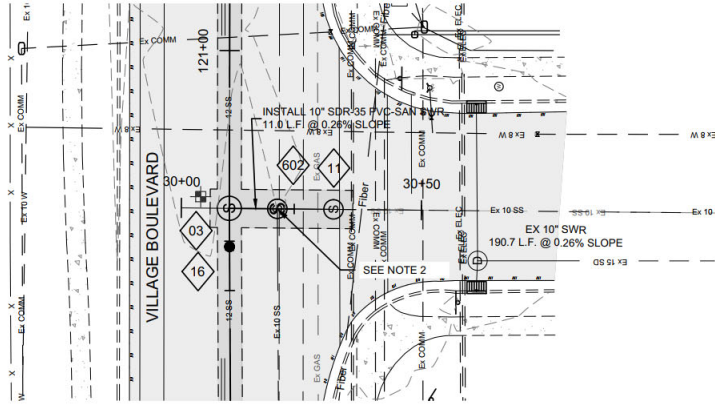
SHEET

PP-07



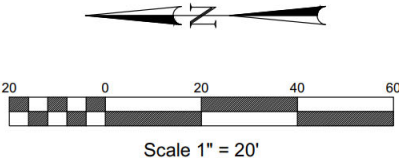
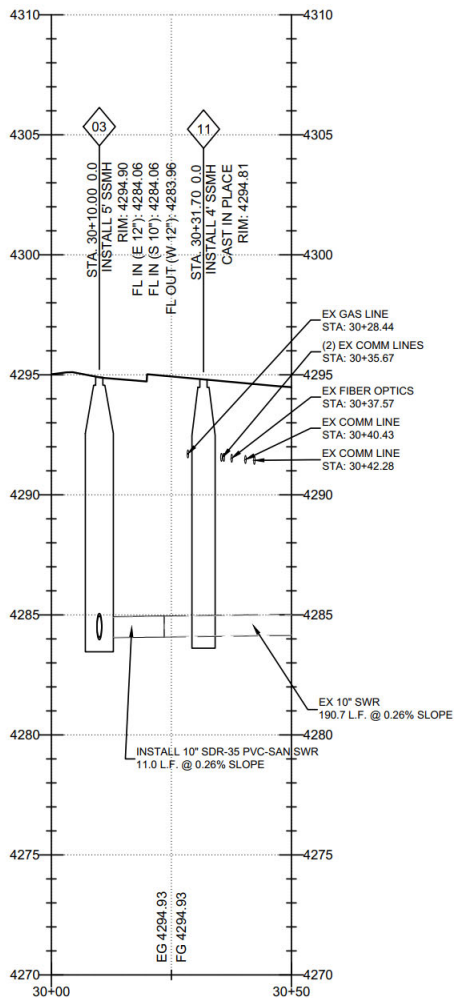
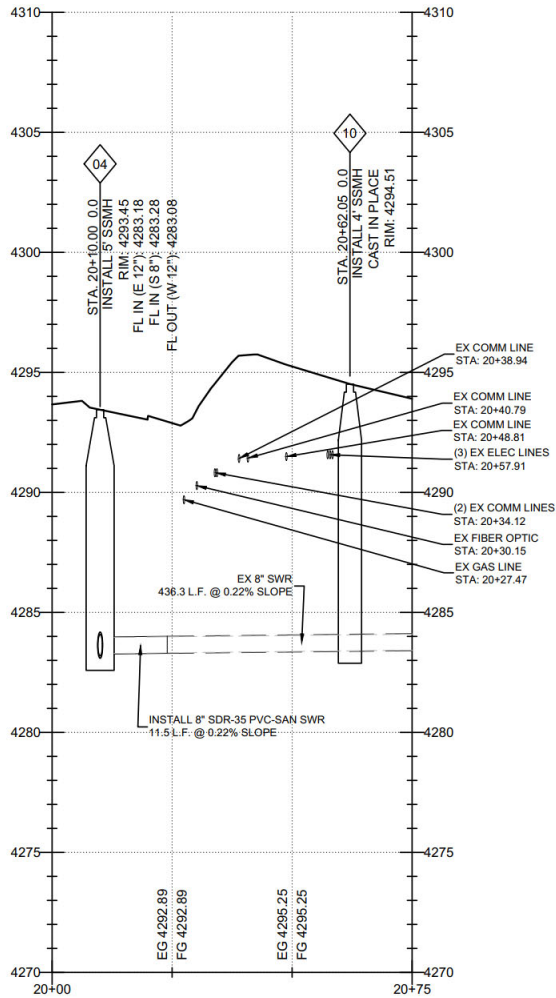
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NOTES

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- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.



STANSBURY PARK IMPROVEMENT DISTRICT
VILLAGE BLVD TRUNK-LINE
TOOELE COUNTY, UT
EAST 20+00 TO 20+75 & 30+00 TO 30+50

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Ward Engineering Group
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PH: 801.487.8040

CLIENT: SPID
DWG: EAST VILLAGE BLVD - 2.DWG
JOB No: 4802-SPID238-22
DATE: 2022 DEC 7

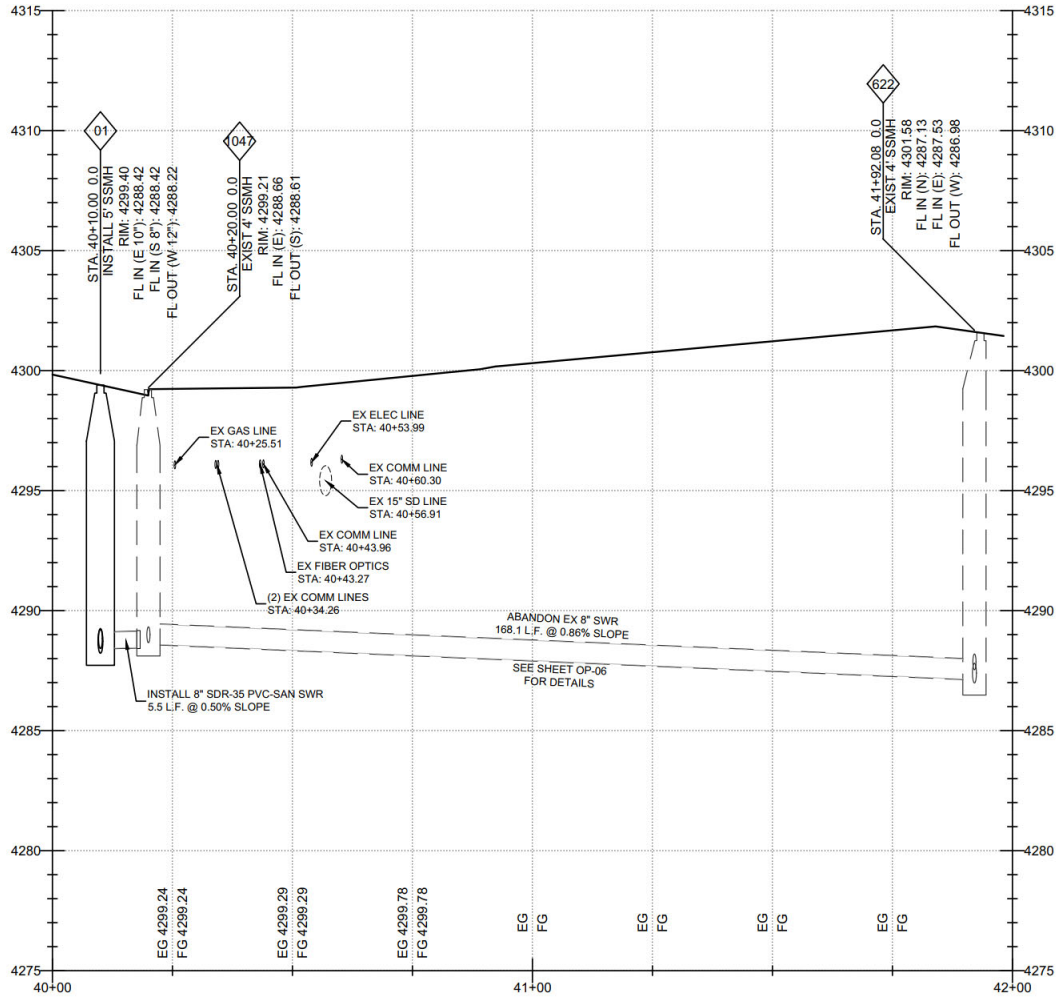
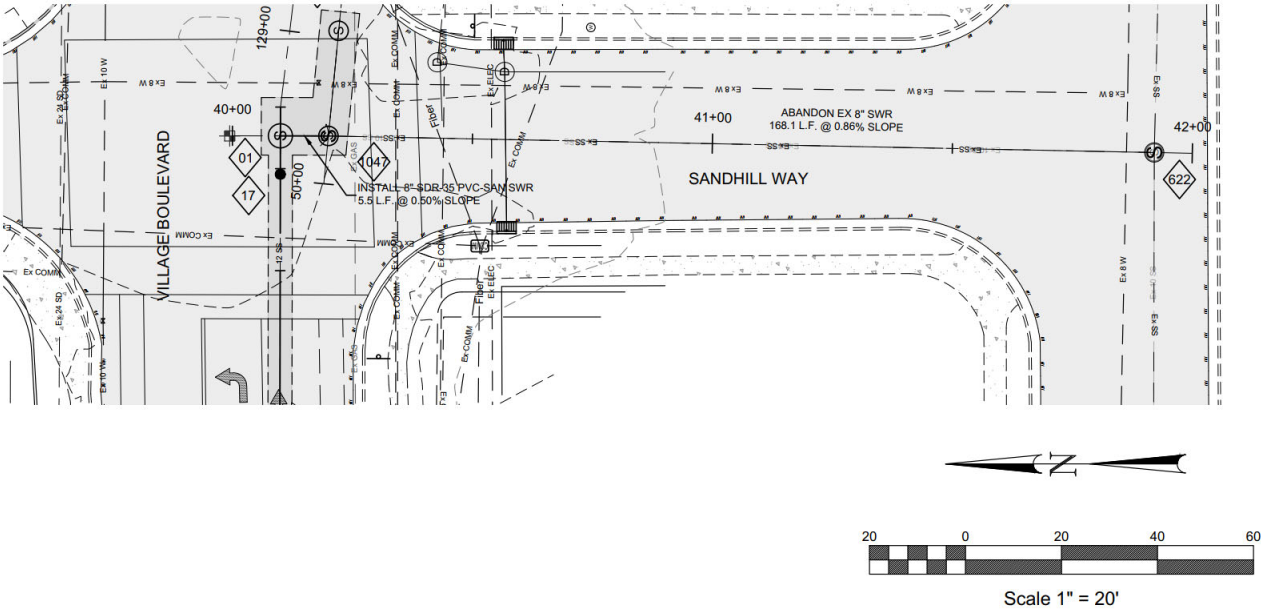
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REVISIONS

NO.	DESCRIPTION	DATE

PROFESSIONAL ENGINEER
BRENDAN H. THORPE
STATE OF UTAH

SHEET
PP-08

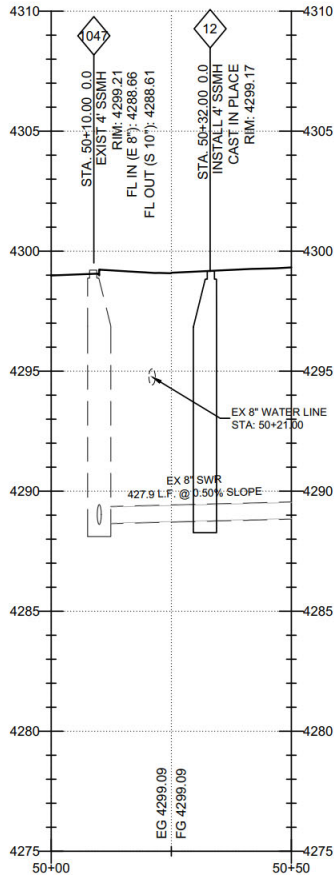
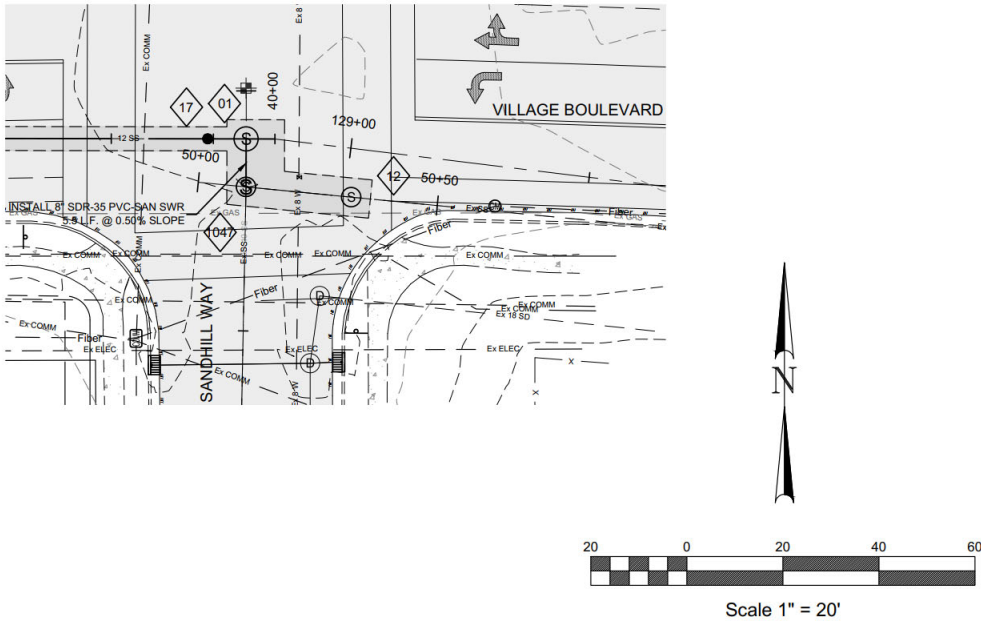


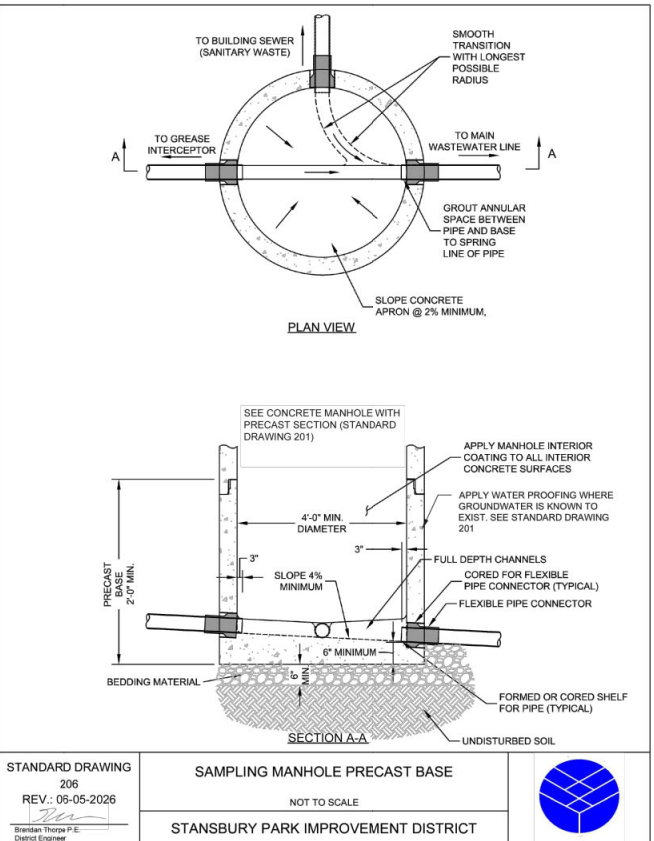
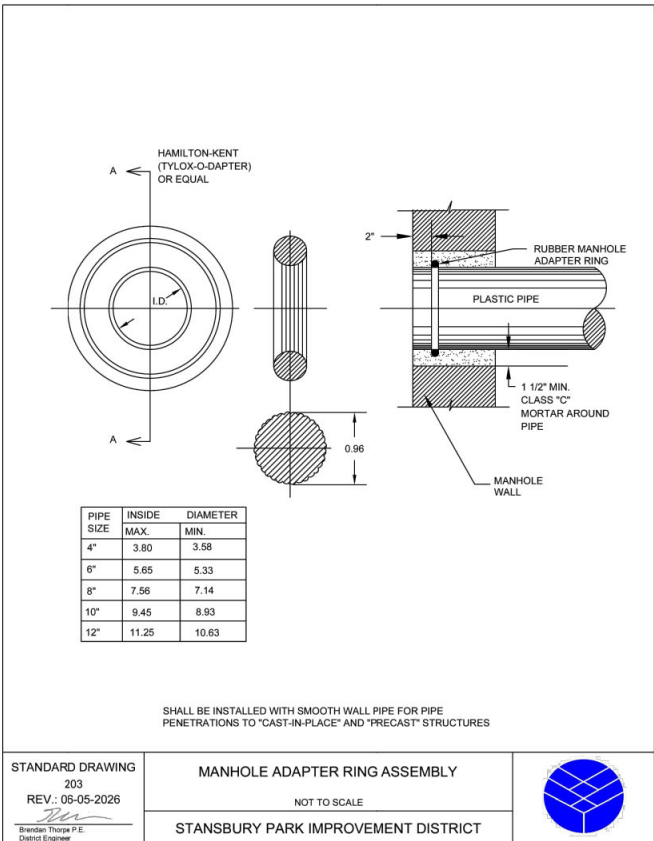
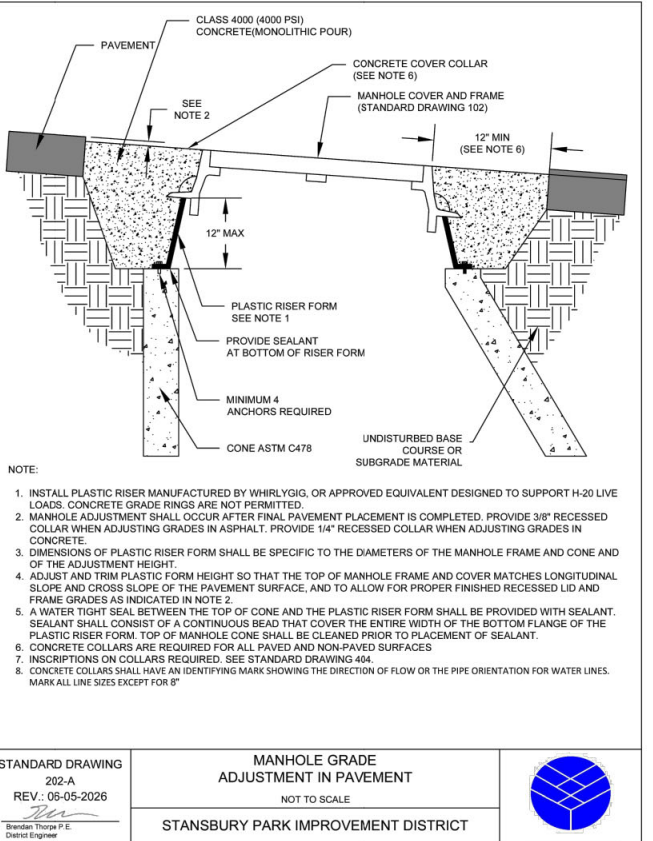
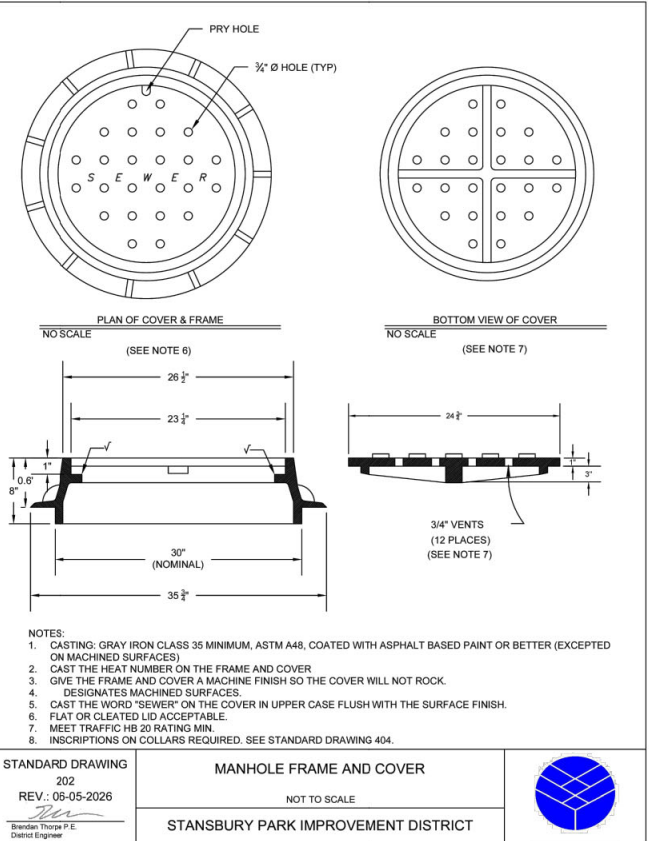
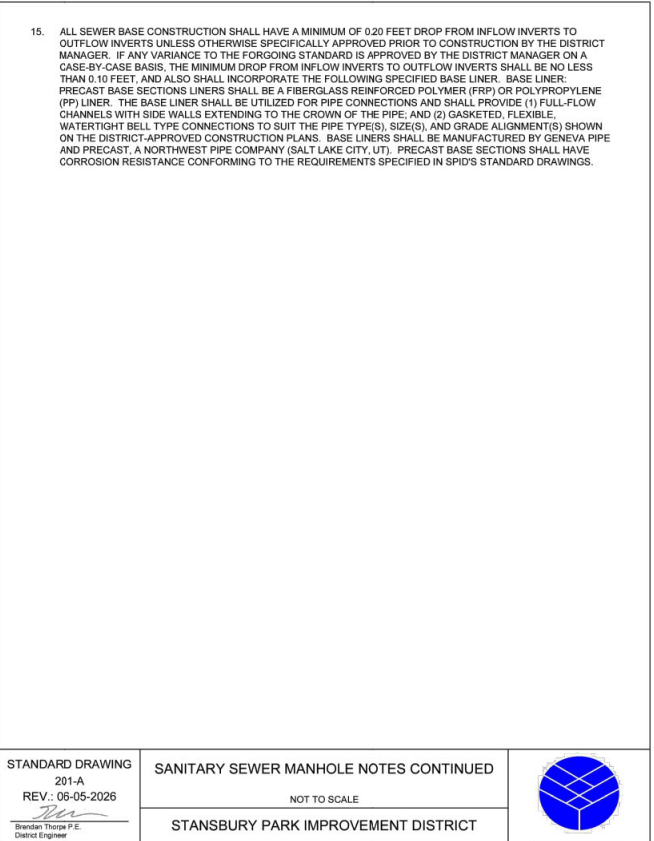
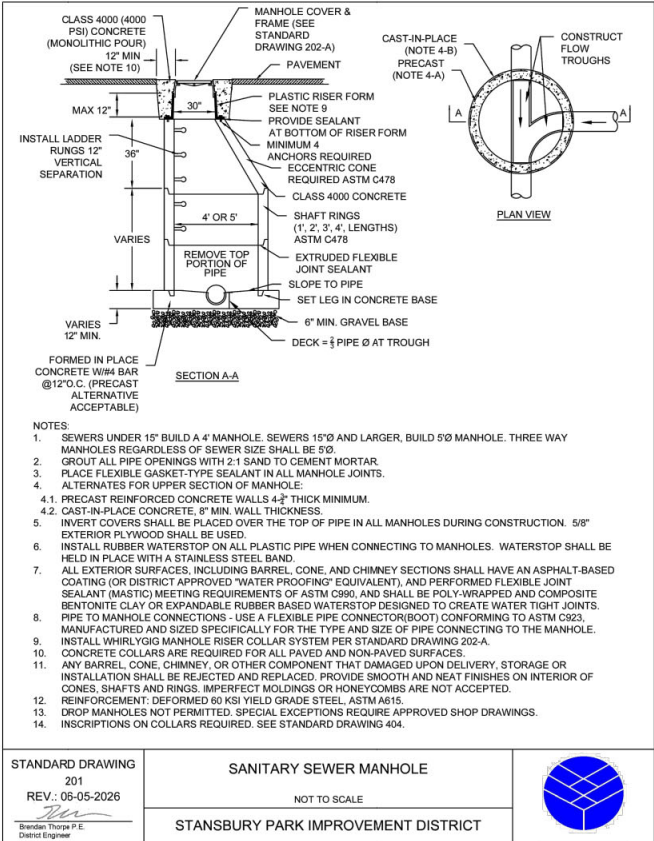
STRIPING NOTE:
INSTALL 4" DOUBLE YELLOW PAINT (LN FT), SINGLE 12" WHITE PAINT (LN FT), AND (LEFT, RIGHT, THRU SYMBOL) MESSAGE PAINT (EACH). CONTRACTOR SHALL INSTALL THE LINEAR QUANTITY AND EACH MESSAGE PAINT AS DIRECTED BY TOOELE COUNTY ROAD DEPARTMENT INSPECTOR.

SAWCUT NOTE:
OWNER WILL PAY CONTRACTOR THE ENGINEER'S "NEAT LINE" QUANTITY AS DESIGNED ON THESE PLANS, REGARDLESS OF HOW MUCH ASPHALT CONTRACTOR CHOOSES TO REMOVE. SEE ALSO TOOELE COUNTY'S T-PATCH DETAIL (APWA 2012 VERSION - SEE SHEET DT-01). OWNER PAYS FOR "NEAT LINE" QUANTITIES FOR MILLING AND ASPHALT FILLING. ROTO MILLING EXTENTS ARE NOT SHOWN ON THESE PLANS.

NOTES

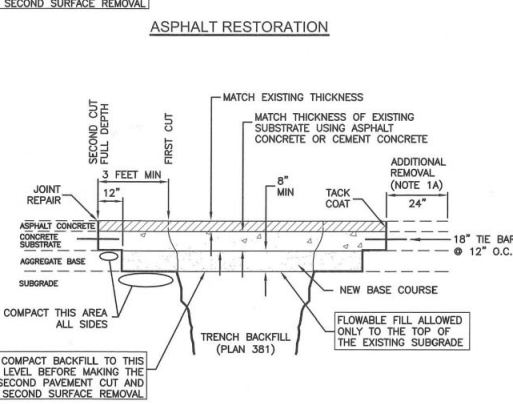
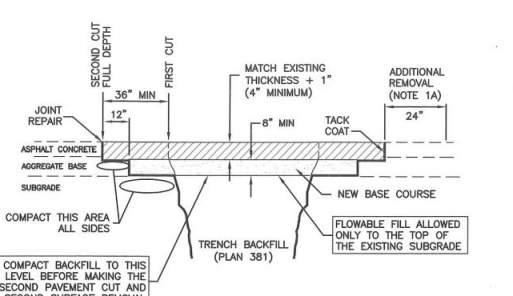
- SSMH TO BE ABANDONED PER SPID STANDARDS. REMOVE FRAME AND LID AND SALVAGE FOR SPID. LEAVE CONE, CONCRETE PLUG AT ALL PIPE OPENINGS, AND FILL MANHOLE WITH ¾" OR 1" ROCK.
- REMOVE EXISTING SSMH PER SPID STANDARDS. SEE ORDER OF OPERATIONS SHEETS OP-01 TO OP-06.





FROM APWA 2012 PUBLICATION DEEP EXCAVATION

(MORE THAN 48 INCHES FROM PAVEMENT SURFACE TO BOTTOM OF EXCAVATION)



Asphalt concrete T-patch

Plan
255
Sheet 2 of 2

- Asphalt concrete T-patch
1. GENERAL
A. If a saw cut in the direction of vehicular travel is within a wheel path, ENGINEER may order additional pavement removal so saw cut falls outside of a wheel path.
2. PRODUCTS
A. Base Course: Untreated base course, APWA Section 32 11 23. Do not use gravel as a base course without ENGINEER'S permission.
B. Flowable Fill: Target is 60 psi in 28-days and 90 psi maximum in 28 days, APWA Section 31 05 15. It must flow easily requiring no vibration for consolidation.
C. Reinforcement: Galvanized or epoxy coated, 60 ksi yield grade steel, ASTM A 615.
D. Concrete: Class 4000, APWA Section 03 30 04.
E. Tack Coat: APWA Section 32 12 13.
F. Asphalt Concrete: APWA Section 32 12 05.
1. Warm weather patch - AC-20-DM-1/2 unless indicated otherwise.
2. Cold weather patch - modified MC-250-FM-1, APWA Section 33 05 25.
3. EXECUTION
A. Base Course Placement: APWA Section 32 05 10. Maximum lift thickness before compaction is 8-inches when using riding equipment or 6-inches when using hand held equipment. Compaction is 95 percent or greater relative to a modified proctor density, APWA Section 31 23 26.
B. Tack Coat: Clean all horizontal and vertical surfaces. Apply full coverage.
C. Asphalt Pavement: Match existing thickness plus 1 inch but not more than 6-inches in residential thoroughfares or 8-inches non residential thoroughfares. Install in lifts no greater than 3-inches after compaction. Compact to 94 percent of ASTM D 2041 (Rice density) plus or minus 2 percent. If asphalt pavement is substituted for concrete substrate, omit rebar and provide 1.25 inches of pavement for each 1 inch of concrete substrate substituted.
D. Reinforcement: Required if thickness of existing Portland-cement concrete substrate is 6-inches or greater. Not required if (1) less than 6-inches thick, (2) if existing concrete is deteriorating, (3) if excavation is less than 3 feet square, or (4) if asphalt pavement is substituted for Portland-cement concrete substrate.
E. Concrete Substrate: Cure to initial set before placing new asphalt concrete patch.
F. Joint Repair: If a crack occurs at a connection to and existing pavement or at any street fixture, flush seal the crack per Plan 265.
G. Patch Repair: Repair patch if any of the following conditions within the patch occur:
1) Pavement surface distortion exceeds 1/4-inch deviation in 10 feet. Repair option: Plane off surface distortions. Coat planed surfaces with a cationic or anionic emulsion that complies with APWA Section 32 12 03.
2) Cracks at least 1-foot long and 1/4-inch wide occur more often than 1 in 10 square feet. Repair option: Crack seal, APWA Section 32 01 17.
3) Asphalt raveling is greater than 1 square foot per 100 square feet. Repair option: Mill and inlay.

INSERTA TEE
INSERTA TEE | PO BOX 714
CORNELIUS, OR 97113
PH: (503) 357-2110 FAX: (503) 359-5417
SALES@INSERTATEE.COM

THIS STANDARD DETAIL DISCLOSES SUBJECT MATTER IN WHICH INSERTA-TEE HAS PROPRIETARY RIGHTS. MATCHES MANUFACTURE'S DRAWING DATE: 09/12/2013. OWNERSHIP, PATENTS AND DESIGN BY ADS.

**NOSE-ON SEWER LATERAL CONNECTION
SDR 35 GASKETED BELL GRAVITY APPLICATIONS**

A. EQUIVALENT O.BELL END ACCEPTS PIPE WITH SDR 35, ASTM D3034 OR EQUIVALENT O.D. SPECIFICATION IN 8", 10", 12", 15", 18", 21", 24", 27", AND 30" SIZES. (FOR 4" AND 6" SIZES REFER TO FATBOY SPECIFICATIONS).

B. CURVATURE VARIES WITH MAINLINE DIAMETERS.

C. SPIGOT END PVC SDR 35, ASTM D3034 DIAMETERS: 8", 10", 12", 15", 18", 21", 24", 27" AND 30"

INSERTA TEE SIZE HOLE DIAMETER

8" (200 mm)	8 3/4" (222mm)
10" (250 mm)	10 3/4" (276mm)
12" (300 mm)	12 3/4" (327mm)
15" (375 mm)	15 3/4" (402mm)
18" (450 mm)	18 3/4" (503mm)
21" (525 mm)	22 3/4" (573mm)
24" (600 mm)	25 3/4" (643mm)
27" (675 mm)	28 3/4" (724mm)
30" (750 mm)	32 1/4" (826mm)

PART PART NAME MATERIALS

1	HUB ADAPTOR	PVC SDR 35 ASTM D3034
2	RUBBER GASKET	ASTM F477
3	SECURING CLAMP**	(AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
4	RUBBER SLEEVE	BAND SS #301
4A	UPPER SEGMENT**	SCREW SS #305
4B	LOWER SEGMENT**	HOUSING SS #301
		ASTM F477

* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING
** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

NOTES:

- WHEN CONNECTING LATERALS TO EXISTING SEWER MAIN LINES, USE A NOSE-ON CONNECTION. INVERTS OF NEW LATERALS MUST BE MADE A 10.00 AND 2.00 POSITIONS.
a. FOR NOSE-ON CONNECTIONS TO AN EXISTING 10-INCH MAIN OR LARGER, THE CONNECTION SHALL BE MADE USING AN INSERTA-TEE FITTING. CONNECTIONS SHALL BE CORE-DRILLED. RUBBER SLEEVES - ASTM F477, BANDS - 301 SS, SCREWS - 305 SS, HOUSING 301 SS, AND GASKETS - ASTM F477.
b. FOR NOSE-ON CONNECTIONS TO AN EXISTING 8-INCH OR 8-INCH PVC MAIN, THE CONNECTION SHALL BE MADE BY SPLICING A FACTORY TEE INTO THE MAIN USING SUPREPAIR COUPLINGS. FERNCO-TYPE COUPLINGS ARE NOT PERMITTED.
c. FOR NOSE-ON CONNECTIONS TO AN EXISTING 6 OR 8-INCH CONCRETE OR VITRIFIED CLAY MAIN, CONNECTION SHALL BE MADE USING AN INSERTA TEE FITTING.
d. FOR NOSE-ON CONNECTIONS TO ANY OTHER TYPE OF PIPE SHALL BE APPROVED BY THE SPID.
INSTALL 1/4-INCH ROCK, 6 INCHES BELOW THE SEWER LATERAL ON UNDISTURBED GRADE (I.E., USING A FLAT-BLADE BUCKET GRADE AT BOTTOM OF UTILITY TRENCH PRIOR TO BACKFILL AND PIPE INSTALLATION. LOOSE OR NON-COMPACTED SUBGRADE AT BOTTOM OF TRENCH IS PROHIBITED. INSTALL 1/4-INCH ROCK 1.0 FOOT MINIMUM ABOVE THE TOP OF THE LATERAL.
- RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE MANUFACTURE'S INSTALLATION INSTRUCTIONS.)

STANDARD DRAWING 207-A
REV.: 05-05-2026
Brendan Thorpe P.E.
District Engineer

**NOSE-ON SEWER LATERAL CONNECTION SDR 35
GASKETED BELL GRAVITY APPLICATIONS**

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

INSERTA TEE
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SALES@INSERTATEE.COM

THIS STANDARD DETAIL DISCLOSES SUBJECT MATTER IN WHICH INSERTA-TEE HAS PROPRIETARY RIGHTS. MATCHES MANUFACTURE'S DRAWING DATE: 09/12/2013. OWNERSHIP, PATENTS AND DESIGN BY ADS.

**NOSE-ON SEWER LATERAL CONNECTION
CORRUGATED BELL FOR GRAVITY APPLICATIONS**

A. BELL END ACCEPTS CORRUGATED POLYETHYLENE; AND PVC, CORRUGATED PIPE OR EQUIVALENT O.D. SPECIFICATIONS IN 4", 6", 8", 10", 12", 15", 18", 21", 24", 27" AND 30" SIZES.

B. CURVATURE VARIES WITH MAINLINE DIAMETERS.

C. SPIGOT END PVC SDR 35, ASTM D3034 DIAMETERS: 4", 6", 8", 10", 12", 15", 18", 21", 24", 27" AND 30"

INSERTA TEE SIZE HOLE DIAMETER

4" (100 mm)	4 1/2" (114 mm)
6" (150 mm)	6 3/4" (165 mm)
8" (200 mm)	8 3/4" (222 mm)
10" (250 mm)	10 3/4" (276 mm)
12" (300 mm)	12 3/4" (327 mm)
15" (375 mm)	15 3/4" (402 mm)
18" (450 mm)	18 3/4" (503 mm)
21" (525 mm)	22 3/4" (573 mm)
24" (600 mm)	25 3/4" (643 mm)
27" (675 mm)	28 3/4" (724 mm)
30" (750 mm)	32 1/2" (826 mm)

PART PART NAME MATERIALS

1	HUB ADAPTOR	PVC SDR 26 ASTM D3034
2	SECURING CLAMP*	BAND SS #301
3	RUBBER SLEEVE	(AVAILABLE IN NITRILE AND EPDM BY SPECIAL ORDER)
3A	UPPER SEGMENT**	SCREW SS #305
3B	LOWER SEGMENT**	HOUSING SS #301
4	(NOT SHOWN) PIPE MANUFACTURER TO SUPPLY VALLEY GASKET	ASTM F477

* OPTIONAL: #316 STAINLESS STEEL BAND, SCREW AND HOUSING
** DISTANCE BETWEEN 4A AND 4B WILL VARY BY PRODUCT TYPE
*** WILL NOT APPEAR ON RUBBER SLEEVES FOR CONCRETE OR CLAY PIPE

NOTES:

- WHEN CONNECTING LATERALS TO EXISTING SEWER MAIN LINES, USE A NOSE-ON CONNECTION. INVERTS OF NEW LATERALS MUST BE MADE A 10.00 AND 2.00 POSITIONS.
a. FOR NOSE-ON CONNECTIONS TO AN EXISTING 10-INCH MAIN OR LARGER, THE CONNECTION SHALL BE MADE USING AN INSERTA-TEE FITTING. CONNECTIONS SHALL BE CORE-DRILLED. RUBBER SLEEVES - ASTM F477, BANDS - 301 SS, SCREWS - 305 SS, HOUSING 301 SS, AND GASKETS - ASTM F477.
b. FOR NOSE-ON CONNECTIONS TO AN EXISTING 8-INCH OR 8-INCH PVC MAIN, THE CONNECTION SHALL BE MADE BY SPLICING A FACTORY TEE INTO THE MAIN USING SUPREPAIR COUPLINGS. FERNCO-TYPE COUPLINGS ARE NOT PERMITTED.
c. FOR NOSE-ON CONNECTIONS TO AN EXISTING 6 OR 8-INCH CONCRETE OR VITRIFIED CLAY MAIN, CONNECTION SHALL BE MADE USING AN INSERTA TEE FITTING.
d. FOR NOSE-ON CONNECTIONS TO ANY OTHER TYPE OF PIPE SHALL BE APPROVED BY THE SPID.
INSTALL 1/4-INCH ROCK, 6 INCHES BELOW THE SEWER LATERAL ON UNDISTURBED GRADE (I.E., USING A FLAT-BLADE BUCKET), OR COMPACT GRADE AT BOTTOM OF UTILITY TRENCH PRIOR TO BACKFILL AND PIPE INSTALLATION. LOOSE OR NON-COMPACTED SUBGRADE AT BOTTOM OF TRENCH IS PROHIBITED. INSTALL 1/4-INCH ROCK 1.0 FOOT MINIMUM ABOVE THE TOP OF THE LATERAL.
- RECOMMENDED METHOD OF CUTTING HOLE IS WITH HOLE SAW FOR PVC AND OTHER PLASTICS, AND DIAMOND BIT FOR CONCRETES, CLAY, FRP AND D.I. (SEE MANUFACTURE'S INSTALLATION INSTRUCTIONS.)

STANDARD DRAWING 207-B
REV.: 05-05-2026
Brendan Thorpe P.E.
District Engineer

**NOSE-ON SEWER LATERAL CONNECTION
CORRUGATED BELL FOR GRAVITY APPLICATIONS**

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

**SPECIAL PROVISION TO APWA SECTION 33 08 00 M,
PART 3.3 "GRADE AND ALIGNMENT TESTING"**

STANSBURY PARK IMPROVEMENT DISTRICT ADOPTS THE APWA STANDARD SPECIFICATION 33 08 00 FOR COMMISSIONING OF SEWER AND STORM DRAIN LINES, WITH THE FOLLOWING AMENDMENTS:

TOLERANCES FOR PIPE PLACEMENT ARE AS FOLLOWS:

DESIGN GRADE	TOLERANCES		SLOPE CERTIFICATION REQUIRED (PER SPID STD DWG 208-B)
	GRADE	ALIGNMENT	
GREATER THAN 1%	1/2" INCH IN 10 FT	1" FROM TRUE LINE	NO
0.5 TO 1%	1/2" INCH IN 10 FEET	1" FROM TRUE LINE	NO
LESS THAN 0.5%, BUT GREATER THAN MINIMUM DESIGN SLOPE	1/2" INCH IN 100 FEET	1" FROM TRUE LINE	NO
AT MINIMUM ALLOWED DESIGN SLOPE	1/2" INCH IN 100 FEET	1" FROM TRUE LINE	YES

NOTES:

- GRADE DOES NOT RESULT IN A LEVEL OR REVERSE SLOPING INVERT. STANDING WATER IS EVIDENCE OF NON-COMPLIANCE.
- FOR CULVERTS, INCREASE TOLERANCES BY 50 PERCENT.
- SPID STRICTLY ENFORCES STANDARD APWA NOTES A AND B AND MAINTAINS A "ZERO" TOLERANCE AND NON-ACCEPTANCE POLICY FOR FLAT BELLIES AND FLAT ZONES/SPOTS IN PIPELINES. CONTRACTOR SHALL CORRECT NON-CONFORMING WORK, AND RETELEVISE THE CORRECTED WORK UNTIL WORK IS IN COMPLIANCE.

DISTRICT'S MINIMUM ALLOWED DESIGN SLOPE

PIPE SIZE	MINIMUM DESIGN SLOPE
8"	0.50%
10"	0.28%
12"	0.22%
14"	0.17%
15"	0.15%

DISTRICT'S MINIMUM ALLOWED DESIGN SLOPE (CONT)

PIPE SIZE	MINIMUM DESIGN SLOPE
16"	0.14%
18"	0.12%
21"	0.10%
24"	0.08%

STANDARD DRAWING 208-A
REV.: 04-10-2025
Brendan Thorpe P.E.
District Engineer

GRADE AND ALIGNMENT TEST

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

**SECTION 01 45 50 M
(SPECIAL PROVISIONS)
SLOPE CERTIFICATION (SURVEY)**

PART 1 GENERAL

1.1 SECTION INCLUDES

- OWNER'S RESPONSIBILITIES FOR QUALITY AND QUALITY ASSURANCE RELATING CONSTRUCTED SEWER PIPE SLOPES WHICH REQUIRE CERTIFICATION.
- QUALITY ASSURANCE
- OWNER WILL RETAIN A LICENSED AND SURVEYOR TO ASSURE "ASBUILT" PIPE SLOPES CONFORM TO PLANS AND SPECIFICATIONS.
- OWNER WILL USE STANDARD INDUSTRY PRACTICES AND TOLERANCES FOR SPECIFIED SURVEYING METHODS.
- OWNER WILL PROVIDE ADDITIONAL SURVEYING, IF, IN ENGINEER'S OPINION, CONTRACTOR'S WORK IS NOT BEING ADEQUATELY CONTROLLED.
- SURVEYING PROFESSIONAL**
- SURVEYOR WILL COORDINATE WITH ENGINEER AND CONTRACTOR IN PERFORMING DAILY SURVEYS.
- OWNER WILL CORRELATE CERTIFICATIONS WITH CONTRACTOR AND SURVEYOR.
- WHEN AN OUT-OF-TOLERANCE CONDITION EXISTS, OWNER WILL PERFORM ADDITIONAL SURVEYS UNTIL TOLERANCE IS ATTAINED, AND CONTRACTOR WILL NOT CONTINUE WITH PIPE CONSTRUCTION UNTIL TOLERANCE IS ATTAINED AND CERTIFIED BY OWNER.
- SURVEYOR WILL REPORT ANY NON-COMPLIANCE PIPELINE SLOPES TO CONTRACTOR AND OWNER IMMEDIATELY.
- EQUIPMENT**
- SURVEYOR WILL USE ONLY A TOTAL STATION OR LINE LEVEL LOOP WITH A "BEST SURVEY STANDARDS" MARGIN OF ERROR EQUAL TO +/- 0.02 FEET.
- GPS SYSTEM NOT ALLOWED.
- PROCEDURES**
- PRIOR TO ANY ABOVE PIPE BACKFILL BY CONTRACTOR, SURVEYOR SHALL MEASURE THE ELEVATION OF CONSTRUCTED PIPE AT EACH MANHOLE, INCLUDING ALL EXTERIOR LEGS OF PIPE.
- WHEN MANHOLES ARE SPACED MORE THAN 200 FEET APART, SURVEYOR WILL MEASURE THE ELEVATION AT THE MIDPOINT, OR NEAR THE MIDPOINT OF ALL SEWER LINES BETWEEN MANHOLES.
- SURVEYOR WILL CALCULATE PIPE SLOPES BETWEEN EACH ELEVATION MEASUREMENT.
- OWNER WILL COORDINATE WITH CONTRACTOR TO CONFIRM CERTIFICATION, OR TO DIRECT THE CORRECTION OF ANY WORK PRIOR TO ABOVE PIPE BACKFILL.
- CERTIFICATION FORMS SHALL BE SUBMITTED TO OWNER BY SURVEYOR, AND APPROVED BY OWNER FOR EACH RUN OF PIPE "MANHOLE TO MANHOLE", BEFORE ABOVE PIPE BACKFILL IS PLACED, AND CONTRACTOR COMMENCES THE INSTALLATION OF THE NEXT RUN OF PIPE "MANHOLE TO MANHOLE".
- SURVEYOR'S SUBMITTALS**
- SEWER CERTIFICATION SHEET:
 - NAME, ADDRESS AND TELEPHONE NUMBER OF SURVEY PROFESSIONAL.
 - DATE OF SURVEY
 - CERTIFICATION NUMBER
 - LOCATION OF SURVEY
 - SURVEY DATUM AND CONTROL
 - SURVEY INFORMATION IN THE FOLLOWING TABULAR FORM.

MANHOLE #	INVERT DIRECTION	ASBUILT ELEVATION	DESIGN ELEVATION	Δ

PIPE RUN	PIPE LENGTH	ASBUILT %	DESIGN %	Δ

7. CERTIFICATION NARRATIVE BY SURVEYOR.
8. PROFESSIONAL'S STAMP AND SIGNATURE.

B. SUBMITTAL SCHEDULE
SUBMIT REPORTS TO ENGINEER BY THE END OF EACH DAY THAT SEWER LINES ARE CONSTRUCTED.

1.7 CONTRACTOR'S RESPONSIBILITIES

- SEWER LINES CONSTRUCTED THAT DO NOT MEET THE GRADE AND ALIGNMENT TOLERANCES IDENTIFIED IN STANDARD DRAWING 208-A, SHALL BE CORRECTED, RESURVEYED AND CERTIFIED.
- CONTRACTOR SHALL PROVIDE ALL COORDINATION, AND ACCOUNT FOR ANY NORMAL DELAYS IN SCHEDULE FOR SAID COORDINATION AND CERTIFICATION TIME. THIS TIME AND EXPENSE IS INCIDENTAL TO THE WORK, AND NO ADDITIONAL PAYMENT WILL BE PROVIDED BY OWNER.
- CERTIFICATION MUST BE COMPLETED AND ACCEPTED BY SPID FROM MANHOLE TO MANHOLE, PRIOR TO CONSTRUCTION OF ANY UPSTREAM SEWER BETWEEN THE NEXT MANHOLE TO MANHOLE.

1.8 SURVEYOR'S RESPONSIBILITIES

- THE SURVEYOR WILL PROVIDE STAKING OF "CRITICAL SLOPE" SEWERS REQUIRING SLOPE CERTIFICATION.
- USING ONLY A TOTAL STATION OR LINE LEVEL LOOP WITH A "BEST SURVEY STANDARD" MARGIN OF ERROR EQUAL TO +/- 0.02 FEET.
- GPS SYSTEM NOT ALLOWED.

STANDARD DRAWING 208-B
REV.: 04-10-2025
Brendan Thorpe P.E.
District Engineer

GRADE AND ALIGNMENT TEST

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

SAWCUT AND MEET EXISTING GRADE. WHEN REQUIRED INSTALL BITUMINOUS PAVEMENT T-PATCH PER TOOLEE COUNTY STANDARDS. PAVEMENT AS APPROVED BY TOOLEE COUNTY.

BASE COURSE AS APPROVED BY TOOLEE COUNTY

GRANULAR BORROW AS APPROVED BY TOOLEE COUNTY

ABOVE PIPE ZONE MATERIAL AS APPROVED BY TOOLEE COUNTY

LABELLED WARNING TAPE SHALL BE INSTALLED 2' TO 3' ABOVE TOP OF PIPE

PIPE I.D. MIN. "V" INCHES

6" OR LESS	24"
8"-18"	OD + 20"
OVER 18"	OD + 36"

1/2" MINUS ROCK APPROVED BACKFILL SHALL BE INSPECTED & APPROVED BY SPID

ADDITIONAL PIPE ZONE MATERIAL SHALL BE REQUIRED WHEN TRENCH BOTTOM IS UNSTABLE. INSTALL STABILIZATION-SEPARATION GEOTEXTILE AS REQUIRED OR IF DIRECTED BY SPID.

NOTES:

- CONTRACTOR TO FLUSH AND CLEAR PIPES PRIOR TO NOTIFYING DISTRICT THAT SEWER LINES ARE READY FOR TESTING. THE CONTRACTOR WILL RUN A MANDEREL TEST AND AIR TEST AFTER INSTALLATION AND PRIOR TO PAVING. ALL TESTING TO BE DONE PER SPID SPECIFICATIONS AND STANDARDS. THE DISTRICT WILL VIDEO TAPE THE SEWER MAINS AT THE DEVELOPER'S EXPENSE.
- INSTALL PERMANENT, BRIGHT COLORED, CONTINUOUS PRINTED MAGNETIC PLASTIC TAPE, INTENDED FOR DIRECT BURIAL SERVICE. NOT LESS THAN SIX (6) INCHES WIDE BY FOUR (4) MILS THICK. TAPE SHOULD READ "CAUTION BURIED SEWER LINE BELOW". COLOR SHALL BE GREEN, INDICATING BURIED SEWER LINE.
- BEDDING MATERIAL:
 - SUBMIT AGGREGATE BATCH DELIVERY TICKETS SHOWING NAME OF MATERIAL SOURCE, SERIAL NUMBER OF TICKET, DATE AND TRUCK NUMBER, NAME OF SUPPLIER, JOB NAME AND LOCATION, VOLUME OR WEIGHT, AND AGGREGATE CLASSIFICATION.
 - SPID SHALL APPROVE SUBMITTAL AND SOURCE SAMPLE PRIOR TO INSTALLATION.
 - MAINTAIN UNIFORM FOUNDATION ALONG BARREL OF PIPE WITH SUFFICIENT RELIEF FOR JOINT CONNECTIONS. MAKE BELL HOLES BEFORE LAYING BELL AND SPIGOT PIPE IN PIPE ZONE.
 - DO NOT PERMIT FREE FALL BACKFILL MATERIAL THAT MAY DAMAGE PIPE, PIPE FINISH, OR PIPE ALIGNMENT.
- INSTALLATION: FOLLOW ASTM D2221, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS."
- ABOVE PIPE ZONE:
 - ALL MATERIALS, WORKMANSHIP, COMPACTION, TESTING, AND QUALITY CONTROL SHALL BE IN ACCORDANCE WITH TOOLEE COUNTY STANDARD PLANS AND SPECIFICATIONS AND SPID STANDARDS. SUPPLEMENTARY, AND/OR SUPPORTING DOCUMENTS ARE:
 - APWA SECTION 33 05 20: BACKFILLING TRENCHES.
 - APWA SECTION 01 45 00: QUALITY CONTROL.
 - APWA SECTION 31 25 23: COMPACTION.
 - NOTIFY TOOLEE COUNTY ROAD DEPARTMENT AND SPID FOR ALL "ABOVE PIPE ZONE" INSPECTION AND ACCEPTANCE, ACCORDING TO TOOLEE COUNTY REQUIREMENTS.

STANDARD DRAWING 401-B
REV.: 05-05-2026
Brendan Thorpe P.E.
District Engineer

SEWER TRENCH BACKFILL DETAIL

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

Inspection Report

Date	P.O. No.	Weather	Surveyor's Name	Pipe Segment Reference	Section No.
Certificate No.	Survey Customer	System Owner	SEAN	Pre-Cleaning	Sewer Category
Street 123	81138 CASTLEROCK RD	Use of Sewer	Upstream MH	302	
City	STANSBURY	Drainage Area	Downstream MH	293	
Loc. Address		Flow Control	Di. of Survey	Downstream	
Location Code		Length surveyed	Section Length	308.10 ft.	
Purpose of Survey	Pre-Acceptance	Joint Length	Di. of Survey		
Year List		Material	Living Method		
Time / Media No.					
Add. Information:					

EXAMPLE

Station	Position	Observation	Photo
302	0.00	Upstream Manhole Survey Begins	
69.80		Tap Factory Made, at 02 o'clock, 1/4"	
75.00		Tap Factory Made, at 10 o'clock, 1/4"	
134.50		Water Level, Sag in pipe, 15 1/2" cross sectional area	
159.50		Tap Factory Made, at 10 o'clock, 1/4"	
162.80		Tap Factory Made, at 02 o'clock, 1/4"	
181.10		Tap Factory Made, at 10 o'clock, 1/4"	
207.50		Water Level, Sag in pipe, 20 1/2" cross sectional area	
254.40		Tap Factory Made, at 02 o'clock, 1/4"	
306.40		Water Level, Sag in pipe, 15 1/2" cross sectional area	
335.20		Tap Factory Made, at 10 o'clock, 1/4"	
356.60		Tap Factory Made, at 02 o'clock, 1/4"	
368.10		Downstream Manhole, Survey Ends	

NOTE:
A CCTV LOG IS REQUIRED FOR ALL MAINLINE SEWERS. THIS IS AN EXAMPLE OF A TYPICAL LOG, OR VIDEO INSPECTION REQUIRED BY SPID, TO BE PROVIDED BY A NASSCO PACP CERTIFIED COMPANY, AND ITS PERSONNEL.

STANDARD DRAWING 209
REV.: 05-05-2026
Brendan Thorpe P.E.
District Engineer

EXAMPLE CCTV LOG

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

MANHOLE CORE CUT

NOT TO SCALE

STANSBURY PARK IMPROVEMENT DISTRICT

NOTES:

- SPID IS REQUIRED TO BE ON SITE DURING ANY WORK ASSOCIATED WITH MANHOLE CORE CUTTING.

STANDARD DRAWING 211
REV.: 05-05-2026
Brendan Thorpe P.E.
District Engineer

6" TRAFFIC RATED SEWER CLEANOUT DETAIL (OR EQUIVALENT)

NOTES:

- SPID IS REQUIRED TO BE ON SITE DURING ANY WORK ASSOCIATED WITH MANHOLE CORE CUTTING.

STANDARD DRAWING 211
REV.: 05-05-2026
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District Engineer