

SEWER MAIN IMPROVEMENTS PHASE 1 IGNACIO, COLORADO

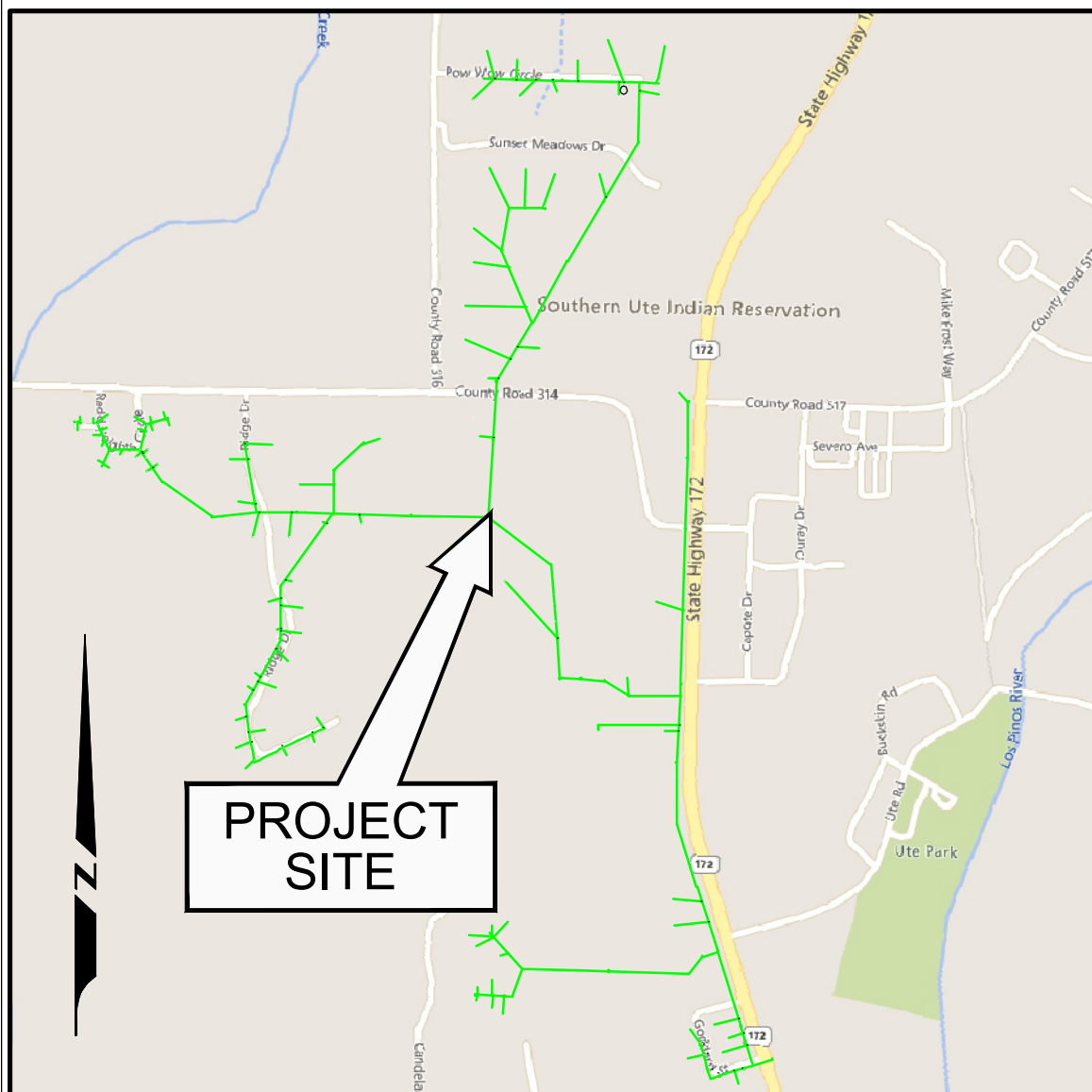
ABBREVIATION LEGEND:

ABC	AGGREGATE BASE COURSE	L	LEFT
BOW	FINISH GROUND AT BASE OF WALL	LP	LOW POINT
BVCE	BEGINNING VERTICAL CURVE STATION	LPEA	LA PLATA ELECTRIC ASSOCIATION
BVCS	BEGINNING VERTICAL CURVE ELEVATION	LVC	LENGTH OF VERTICAL CURVE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION	MAX	MAXIMUM
CEN	CENTER	MIN	MINIMUM
CL	CENTERLINE	MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
CMP	CORRUGATED METAL PIPE	N	NORTHING
COD	CITY OF DURANGO	PC	POINT OF CURVATURE
CP	CONTROL POINT	PE	POLYETHYLENE
DIA	DIAMETER	PGL	PROFILE GRADE LINE
DIP	DUCTILE IRON PIPE	PI	POINT OF INTERSECTION
DMH	DRAINAGE MANHOLE	PT	POINT OF TANGENCY
dsd	MEDIAN STONE SIZE	PVI	POINT OF VERTICAL INTERSECTION
E	EASTING	R	RADIUS
EG	EXISTING GROUND	RT	RIGHT
ELEV	ELEVATION	RCP	REINFORCED CONCRETE PIPE
EOC	EDGE OF CONCRETE	R/W	RIGHT-OF-WAY
EOP	EDGE OF PAVEMENT	SD	STORM DRAIN
ESMT	EASEMENT	SDSD	SOUTH DURANGO SANITATION DISTRICT
EVCE	ENDING VERTICAL CURVE ELEVATION	SMH	SANITARY SEWER MANHOLE
EVCS	ENDING VERTICAL CURVE STATION	SS	SANITARY SEWER
EX	EXISTING	STA	STATION
FES	FLARED END SECTION	TB	THRUST BLOCKING
FG	FINISHED GROUND	TBOC	TOP BACK OF CURB
FL	FLOW LINE	TEMP	TEMPORARY
FO	FIBER OPTIC	TOW	TOP OF WALL RETAINING
FS	FINISHED SURFACE	(TYP)	TYPICAL
GB	GRADE BREAK	W/	WITH
HMA	HOT MIX ASPHALT	±	APPROXIMATE
HP	HIGH POINT	CL	CENTERLINE
INV	INVERT	Δ	INTERIOR ANGLE
LC	LONG CHORD	Ø	DIAMETER

PROJECT CONTACT LIST

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VICINITY MAP

0.001075



Know what's
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Legend of Civil Features

Existing Features		Proposed Features	
	LINETYPES WATER MAIN (SIZE NOTED) SEWER MAIN (SIZE NOTED) SEWER FORCEMAIN STORM CULVERT (SIZE NOTED) IRRIGATION UNDERGROUND POWER OVERHEAD POWER UNDERGROUND FIBER OPTIC UNDERGROUND TELECOMM OVERHEAD TV/TELE WATERCOURSE FLOWLINE UNDERGROUND GAS FENCE/GEOTEXTILE FABRIC PAVEMENT EDGE GRAVEL/DIRT ROAD RAILROAD TRACK GUARDRAIL ROCK WALL STRUCTURAL RETAINING WALL SAWCUT LINE STORM DRAIN CATEGORY CULVERT END SECTION INLET TYPE 'R' INLET GENERAL/AREA DRAIN INLET TYPE 'D'/TYPE 'C' STORMDRAIN MANHOLE ELECTRIC CATEGORY ELECTRIC TRANSMISSION TOWER TRANSFORMER ELECTRIC PEDESTAL/VAULT POWER MANHOLE ELECTRIC METER ELECTRIC OUTLET TRANSFORMER ON POLE POLE MOUNTED STREET LIGHT HIGH MAST LIGHT LUMINAIRE (MISC) UTILITY POLE UTILITY POLE ANCHOR TRAFFIC SIGNAL CATEGORY TRAFFIC SIGNAL POLE W/ MAST ARM TRAFFIC SIGNAL CONTROL PANEL PEDESTRIAN POLE GAS/OIL CATEGORY GAS WELLHEAD GAS VALVE GAS METER GAS VAULT/RISER PROPANE TANK		STRUCTURE CATEGORY BRIDGE DRAIN/COLUMN TELECOMMUNICATION CATEGORY TELECOMM RISER TELECOMM MANHOLE/VAULT ANTENNAE SIGN CATEGORY SIGN (GENERAL) SIGN (CLASS 1 OR 2) SIGN (CLASS 3) BILLBOARD DELINEATOR SIGN W/ BEACON SURVEY CATEGORY RIGHT OF WAY MARKER AERIAL PANEL POINT CONTROL MONUMENT (HARN) BENCHMARK SECTION CORNER PROPERTY PIN USGS MARKER NOAA MARKER BLM MARKER WITNESS CORNER TOWNSHIP CORNER CONTROL MONUMENT FEDERAL CONTROL MONUMENT LOCAL/PLSS TRACT CORNER
	PROPOSED FEATURES ASPHALT SURFACING CONCRETE SURFACING GRAVEL SURFACING RIP-RAP SURFACING SEWER MAIN (SIZE NOTED) STORM DRAIN CULVERT WATER MAIN SEWER FORCEMAIN GAS LINE POWER LINE TELECOM/FIBER LINE LIMITS OF GRADING WATER METER FIRE HYDRANT WATER VALVE BEND FITTING & THRUST BLOCK CURB STOP FINISHED GRADE STREET SIGN STORM MANHOLE CLEANOUT SEWER MANHOLE CURB INLET CATCH BASIN TRENCHED REHABILITATION		MISCELLANEOUS TOPO CATEGORY WASTE SITE/GRAVE ARCH SITE/AREA OF CONCERN MISC.POINT (SEE DESCRIPTION) CAMPSITE MAILBOX RAILROAD CATEGORY RR SIGN/SIGNAL/SWITCH

Existing Features		Proposed Features		SURVEY LINE TYPES	
	CENTERLINE LOTLINE RIGHT OF WAY EASEMENT		CENTERLINE LOTLINE RIGHT OF WAY EASEMENT PARCEL BOUNDARY		T.U.A. BOUNDARY

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SEWER MAIN IMPROVEMENTS PHASE 1 SOUTHERN UTE INDIAN TRIBE IGNACIO, COLORADO

Issue Record:
ADVERTISEMENT 06/13/2025

Revisions:

Project Number: 23-186
Drawn By: JAE/ANW
Designed by: JAE/ANW
Checked By: RSH

Sheet
C0.01
COVER SHEET

g:\2023\23-186-aui-nothridge-sewer-rehab\c002\sheet\c002_general_notes_and_saq.dwg DATE: 6/12/2025 USER: MINNEMANN PLOT SCALE=1:1

BASIS OF INFORMATION:

1.

PARCEL BOUNDARIES, PLANIMETRICS, TOPOGRAPHY, UTILITY LOCATIONS, AND OTHER MAPPING HAS BEEN OBTAINED FROM GIS DATASETS AND SUPPLEMENTED BY FIELD SURVEY OF SURFACE EVIDENT INFRASTRUCTURE AND UTILITY LOCATION MARKINGS.
2.

PRECISION OF THIS SOURCE DATA SHOULD BE CONSIDERED APPROXIMATE AND RELIABLE ONLY WITHIN THE MAPPING PRECISION STANDARDS ASSOCIATED WITH THE METHOD OF COLLECTION.
3.

UTILITIES DEPICTED ON THESE CONSTRUCTION PLANS HAS BEEN OBTAINED FROM CLIENT FURNISHED GIS INFORMATION, SUPPLEMENTED BY FIELD SURVEY OF SURFACE MARKING PAINT BY UTILITY OWNERS. ALL UTILITY LOCATIONS SHOULD BE CONSIDERED QUALITY LEVEL "C" AND "D", AS DEFINED BY COLORADO SENATE BILL 18-167.
4.

UTILITIES DEPICTED ON THESE CONSTRUCTION PLANS HAS BEEN OBTAINED FROM CLIENT FURNISHED GIS INFORMATION, SUPPLEMENTED BY FIELD SURVEY OF SURFACE MARKING PAINT BY UTILITY OWNERS. UTILITIES ARE DEPICTED ON THESE PLANS IN ACCORDANCE WITH ACHIEVED "QUALITY LEVELS C & D" (UNLESS OTHERWISE INDICATED) AS DEFINED IN THE AMERICAN SOCIETY OF CIVIL ENGINEER'S DOCUMENT ASCE 38, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA. RELIANCE UPON THESE DATA FOR RISK MANAGEMENT PURPOSES DURING BIDDING DOES NOT RELIEVE THE EXCAVATOR OR UTILITY OWNER FROM FOLLOWING ALL APPLICABLE UTILITY DAMAGE PREVENTION STATUTES, POLICIES, AND/OR PROCEDURES DURING EXCAVATION. IT IS IMPORTANT THAT THE CONTRACTOR INVESTIGATES AND UNDERSTANDS THE SCOPE OF WORK BETWEEN THE PROJECT OWNER AND THEIR ENGINEER REGARDING THE SCOPE AND LIMITS OF THE UTILITY INVESTIGATIONS LEADING TO THESE UTILITY DEPICTIONS.
5.

AUTOCAD SOURCE DRAWNGS WILL BE FURNISHED TO BIDDERS UPON REQUEST. CAD FILES SHALL BE USED FOR INFORMATIONAL PURPOSES ONLY, AND NOT CONSIDERED PART OF THE CONTRACT DOCUMENTS.

GENERAL NOTES:

1.

ALL MATERIALS, INSTALLATION, CONSTRUCTION, INSPECTION AND TESTING SHALL COMPLY WITH THESE PLANS AND INDIAN HEALTH SERVICES SPECIFICATIONS. IN THE EVENT OF DIFFERING OR CONTRADICTIONARY SPECIFICATIONS, CONTRACTOR TO CONTACT THE PROJECT ENGINEER FOR CLARIFICATION OR INTERPRETATION.
2.

THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK, THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
3.

THE CONTRACTOR SHALL COMPLY WITH CONDITIONS SPECIFIED WITHIN THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) PREPARED FOR THE PROJECT BY SUIT SAFETY & ENVIRONMENTAL COMPLIANCE MANAGEMENT GROUP (SECMG).
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY PERMITS, FEES, OR TARIFFS REQUIRED FOR THE PROJECT. PERMITS, FEES, OR TARIFFS SHALL BE CONSIDERED INCIDENTAL TO THE WORK.
5.

ALL SEWER SERVICE CONNECTIONS TO NEW SEWER MAIN SHALL BE FUSION WELDED CONNECTIONS INSTALLED PER MANUFACTURERS SPECIFICATIONS.
6.

IT IS ESTIMATED THAT 75% OF EXISTING SANITARY SEWER MANHOLE BASES WILL NEED TO BE RECONSTRUCTED. BASES WILL BE REQUIRED TO BE RECONSTRUCTED FOR MODIFIED PIPE PENETRATIONS AND PASSAGE OF THE SPLITTING HEAD WHILE THE PIPE BURSTING PROCESS IS OCCURRING.
7.

CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF TREES, VEGETATION, AND SHRUBS NECESSARY TO COMPLETE THE PROJECT. IT IS ESTIMATED THAT 8 TREES WITH DIAMETER AT BREAST HEIGHT GREATER THAN 6 INCHES AND WITHIN 10 FEET OF THE SEWER MAIN ALIGNMENT WILL BE REQUIRED TO BE REMOVED.
8.

ALL EXISTING FEATURES (FENCING, INFRASTRUCTURE, DRAINAGE PATHS, ETC.) DISTURBED DURING CONSTRUCTION SHALL BE PLACED BACK OR REHABILITATED TO EXISTING CONDITIONS. DISTURBED SURFACE DRAINAGE PATHS AND CULVERT FLOWS SHALL MAINTAIN THEIR EXISTING CAPACITY AND PATH THROUGHOUT CONSTRUCTION.
9.

GROUNDWATER WILL MOST LIKELY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER TO DEVELOP A DEWATERING PLAN AND ACQUIRE THE NECESSARY PERMITS IN ACCORDANCE WITH EPA REQUIREMENTS.
10.

CONTRACTOR IS ADVISED THAT POTENTIAL HYDRO CARBON SOIL CONTAMINATION MAY BE ENCOUNTERED NEAR THE THRIFTWAY GAS STATIONS SITE. THE CONTRACTOR IS TO COORDINATE EXCAVATION AND SOIL TESTING WITH SUIT SAFETY & ENVIRONMENTAL COMPLIANCE MANAGEMENT GROUP (SECMG) WHEN WORKING IN THIS AREA.
11.

CONTRACTOR AND ALL SUBCONTRACTORS MUST POSSESS CURRENT SUIT CROSSING PERMITS PRIOR TO STARTING WORK. BIDDERS ARE ADVISED TO CONTACT THE SUIT LANDS OFFICE AT (970) 563-0126 FOR ADDITIONAL INFORMATION.
12.

CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS SPECIFIED WITHIN THE PROJECT'S B.I.A. ROAD CROSSING UTILITY PERMIT(S).
13.

THIS PROJECT IS SUBJECT TO PREVAILING WAGES. REFERENCE FEDERAL WAGE DETERMINATION FOR HIGHWAY CONSTRUCTION PROJECTS (C020250012 DATED 01-03-2025).
14.

CONSTRUCTION WATER IS AVAILABLE AT THE SUIT HAUL STATIONS. THE CONTRACTOR WILL NEED TO HAVE AN ACCOUNT WITH UTILITY DEPARTMENT AND WILL BE BILLED MONTHLY
15.

THE LOCATIONS FOR STRETCHES OF REHABILITATION EFFORTS IDENTIFIED AS TRENCHED INSTALLATION WERE RECORDED THROUGH A SEWER SURVEY CONDUCTED IN 2019. USING CAMERA FOOTAGE AND SURVEY REPORTS, LOCATIONS OF PIPELINE SAG AND STRUCTURAL DEFECTS WERE IDENTIFIED AS AREAS TO BE REHABILITATED THROUGH TRADITIONAL TRENCHING
16.

NO TRAVEL OUTSIDE OF LAND DEDICATION AREAS IS AUTHORIZED.

UTILITIES NOTES:

1.

CONTRACTOR IS ADVISED THAT UNDERGROUND WATER, SEWER, DRAINAGE, TELEPHONE, FIBER OPTIC, GAS, AND CABLE TV FACILITIES MAY BE LOCATED IN THE VICINITY OF THIS PROJECT. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND WERE OBTAINED FROM SURVEYED UTILITY LOCATES. OTHER UTILITIES MAY EXIST WHICH ARE NOT SHOWN ON THE PLANS.
2.

CONTRACTOR SHALL VERIFY LOCATION AND PRESENCE OF ALL EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION AT CONTRACTORS EXPENSE.
3.

CONTRACTOR IS REQUIRED TO LOCATE EXISTING UTILITY CROSSINGS USING HYDRO-EXCAVATION "POTHOLE" METHODS IN AREAS WHERE OPEN TRENCHING INSTALLATION IS REQUIRED.
4.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE TRUE AND CORRECT LOCATIONS OF EXISTING UTILITIES THAT MAY IMPACT EACH PORTION OF THE WORK. 48 HOURS PRIOR TO PERFORMING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY LOCATION SERVICE AT (800) 922-1987 OR WWW.CALL811.COM. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO COMMENCING CONSTRUCTION IF MARKED UTILITIES APPEAR TO CONFLICT WITH PROPOSED IMPROVEMENTS. THE COST OF LOCATING, PROTECTING AND ACCOMMODATING EXISTING UTILITIES SHALL BE INCIDENTAL TO THE COST OF THE PROJECT. MINOR HORIZONTAL OR VERTICAL ADJUSTMENTS OF THE PROPOSED IMPROVEMENTS TO AVOID CONFLICTS SHALL NOT ENTITLE THE CONTRACTOR TO EXTRA PAY.

PROJECT SPECIAL PROVISIONS:

1.

FUSION WELDED HDPE PIPE JOINTS TO BE INTERNALLY DE-BURRED. PAYMENT FOR THIS WORK WILL NOT BE MADE SEPARATELY BUT INCLUDED IN THE COST FOR PIPELINE INSTALLATION.

SUMMARY OF APPROXIMATE QUANTITIES		
CONTRACT ITEM	UNIT	Q'TY
MOBILIZATION / DEMOBILIZATION	LS	1
HYDRO-EXCAVATION	HR	120
TRAFFIC CONTROL	LS	1
ASPHALT PATCHING (INCL. REMOVAL, DISPOSAL)	SY	530
CONCRETE PATCHING (INCL. REMOVAL, DISPOSAL)	SF	5460
FLOWABLE TRENCH BACKFILL	CY	52
8" DR-21 HDPE (INCL. TRENCH, BED, BACKFILL)	LF	3010
8" DR-21 HDPE (PIPE BURSTING)	LF	7990
SAG REHABILITATION (0-10 FEET, INCL. 8" DR-21 HDPE FIRST INSTALLED BY PIPE BURSTING, TRENCH, BED, BACKFILL)	LF	310
SAG REHABILITATION (10-20 FEET, INCL. 8" DR-21 HDPE FIRST INSTALLED BY PIPE BURSTING, TRENCH, BED, BACKFILL)	LF	330
SAG REHABILITATION (20-30 FEET, INCL. 8" DR-21 HDPE FIRST INSTALLED BY PIPE BURSTING, TRENCH, BED, BACKFILL)	LF	80
SALVAGE AND RECONSTRUCT EX. SSMH	EA	28
RECONSTRUCT EX. SSMH BASE (AFTER PIPE BURSTING)	EA	38
FURNISH AND INSTALL NEW PRECAST SSMH W/ PREFABRICATED BASE	EA	10
4" SDR-35 SEWER SERVICE TAP (INCL. TAP & EXCAVATION LABOR)	EA	77
4" SDR-35 SEWER SERVICE PVC PIPE	LF	360
CONCRETE MANHOLE COLLAR	EA	10
SEWER BYPASS PUMPING	LS	1
CLEARING AND GRUBBING (INCL. REMOVAL OF TREES, SHRUBS, ETC.)	LS	1
HYDROSEEDING (UPLAND SEED MIX) (INCL. HYDRO MULCHING)	AC	0.74
SITE RESTORATION	LS	1
DEWATERING	LS	1
CONSTRUCTION SURVEY	LS	1
SWPPP IMPLEMENTATION AND ADMINISTRATION	LS	1
QA/QC TESTING	LS	1
PRE-POST VIDEO INSPECTION	LS	1

TABULATION OF TRENCHED SAG REHABILITATION	
DEPTH	LENGTH (FT)
0-10FT	310
10-20FT	330
20-30FT	80
TOTAL	720

TABULATION OF MANHOLE REPAIRS AND INSTALLATIONS		
MANHOLE ID	EXPECTED ACTION 1	EXPECTED ACTION 2
SSMH 07-01	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-02	REFER TO DETAIL 6K FOR INSIDE DROP INSTALLATION	RECONSTRUCT MANHOLE BASE
SSMH 07-03	RECONSTRUCT MANHOLE BASE	
SSMH 07-04	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-05	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-08	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-09	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-10	RECONSTRUCT MANHOLE BASE	
SSMH 07-11	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH07-12B	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-13	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-14	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-15	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-20	RECONSTRUCT MANHOLE BASE TO ELIMINATE 4" SERVICE AND ACCOMMODATE UPSIZE FROM 6" TO 8"	
SSMH 07-21	RECONSTRUCT MANHOLE BASE TO ACCOOMADATE PIPE UPSIZE FROM 6" TO 8"	
SSMH 07-22	RECONSTRUCT MANHOLE BASE TO ELIMINATE 4" SERVICE AND ACCOMMODATE UPSIZE FROM 6" TO 8"	
SSMH 07-23	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-24	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-25	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-26	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-27	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-28	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-29	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-30	RECONSTRUCT MANHOLE BASE	
SSMH 07-42	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-43	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 07-44	RECONSTRUCT MANHOLE BASE	
SSMH 04-12	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-11	RECONSTRUCT MANHOLE BASE	
SSMH 04-10	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-08	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-07	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-06	RECONSTRUCT MANHOLE BASE	
SSMH 04-05	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-04	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-03	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-02	SALVAGE AND RECONSTRUCT MANHOLE	RECONSTRUCT MANHOLE BASE
SSMH 04-01	RECONSTRUCT MANHOLE BASE	
P. SSMH 07-42B	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 07-41	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 07-40	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 07-15B	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 6	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 5	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 4	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 3	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 2	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	
P. SSMH 1	FURNISH & INSTALL NEW PRECAST MANHOLE W/ PREFABRICATED BASE	

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SEWER MAIN IMPROVEMENTS PHASE 1

SOUTHERN UTE INDIAN TRIBE

IGNACIO, COLORADO

Issue Record:	
ADVERTISEMENT	06/13/2025

Revisions:	

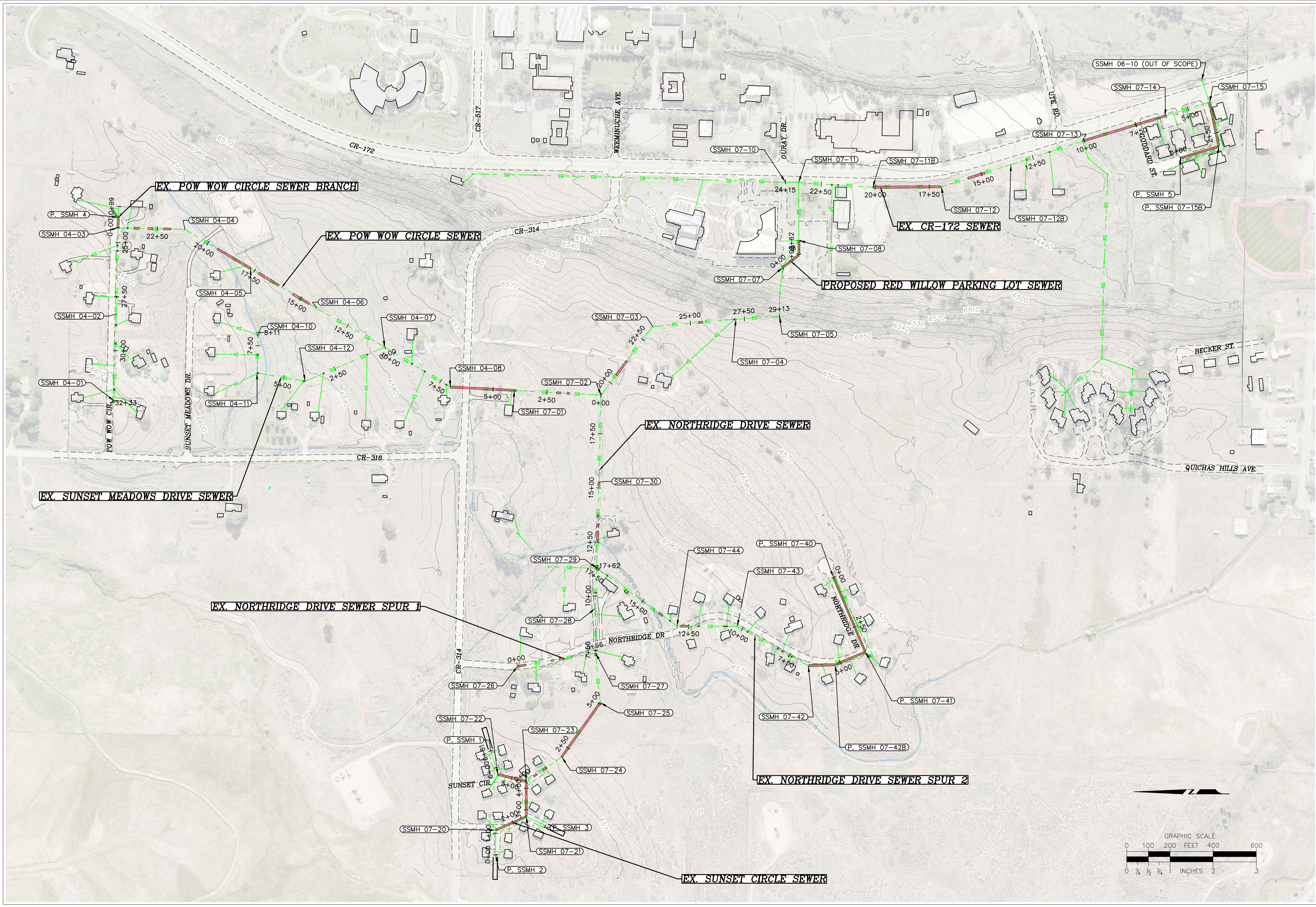
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Designed by:	JAE/ANW
Checked By:	RSH

Sheet

C0.02

GENERAL NOTES AND SAQ

g:\2023\23-186_south_northridge_sewer_improvements\c1.01_overall_site_plan.dwg DATE: 6/12/2025 USER: WINKELMANN PLOT SCALE: 1=1'



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SOUTHERN UTE INDIAN TRIBE

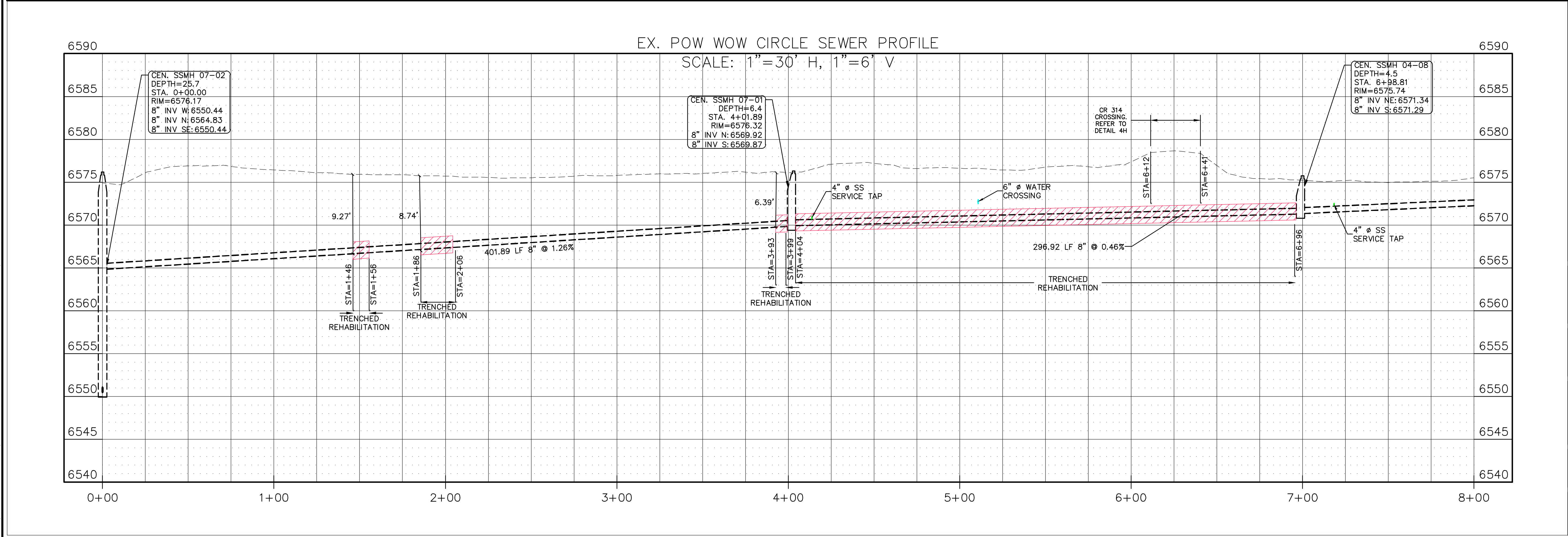
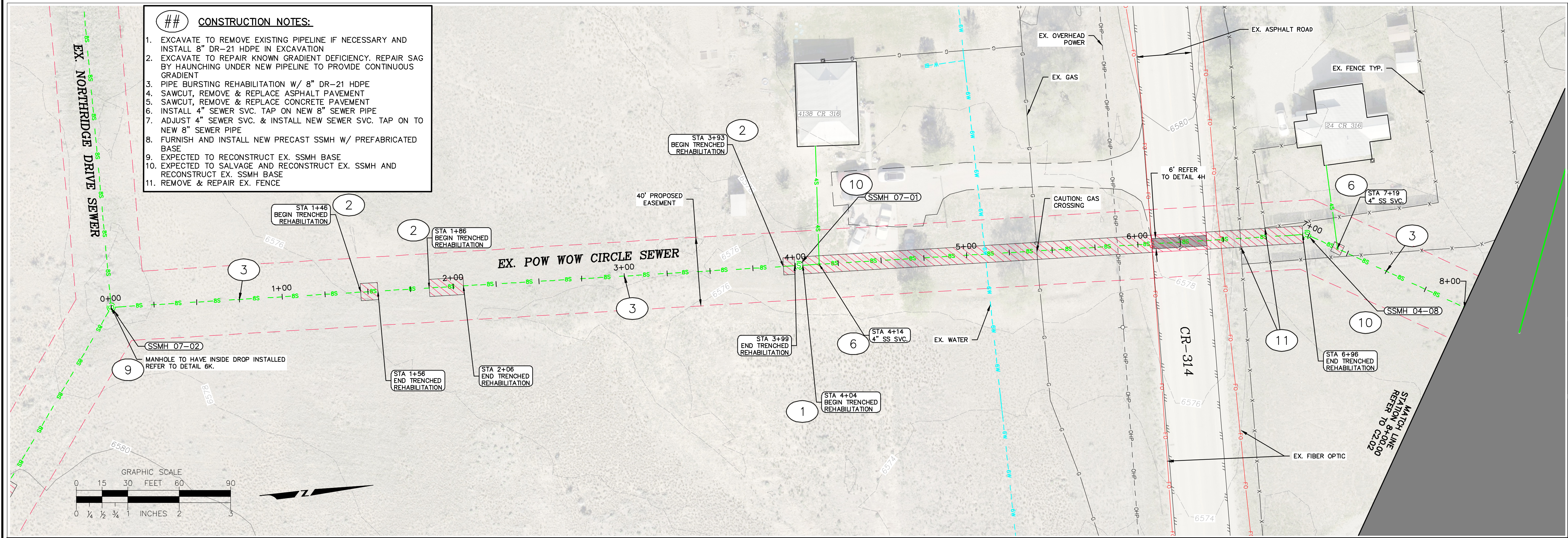
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Designed by: JAE/ANW
Checked By: RSH

Sheet
C1.01
OVERALL SITE PLAN



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SOUTHERN UTE INDIAN TRIBE
IGNACIO, COLORADO

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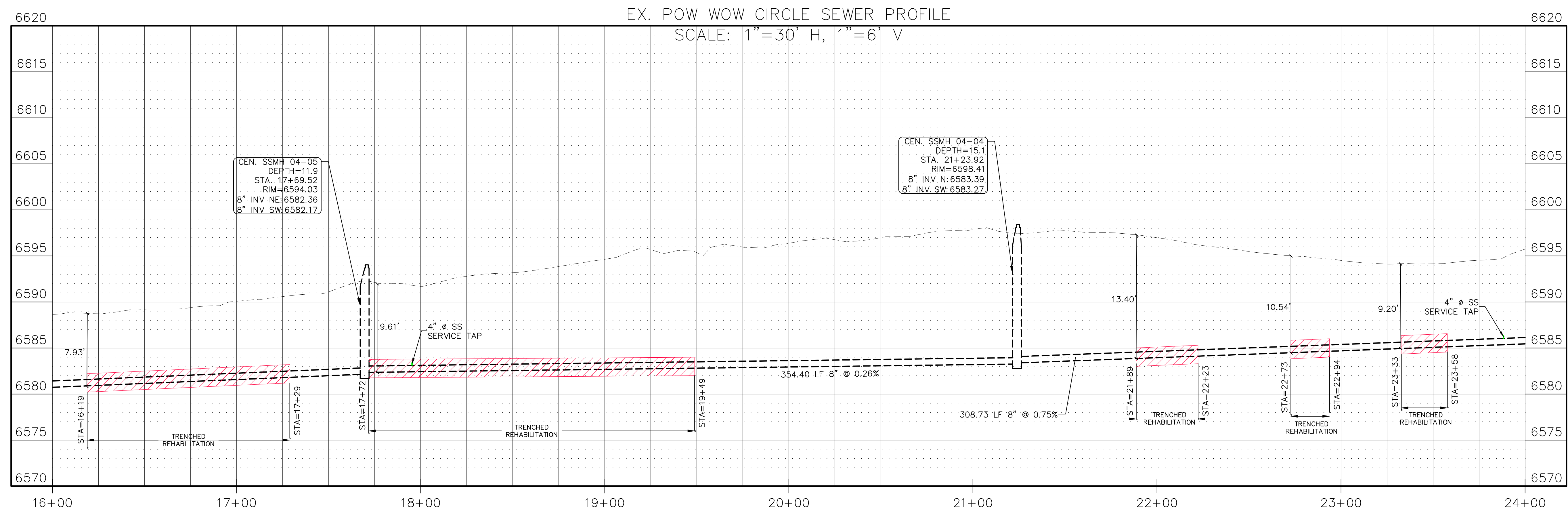
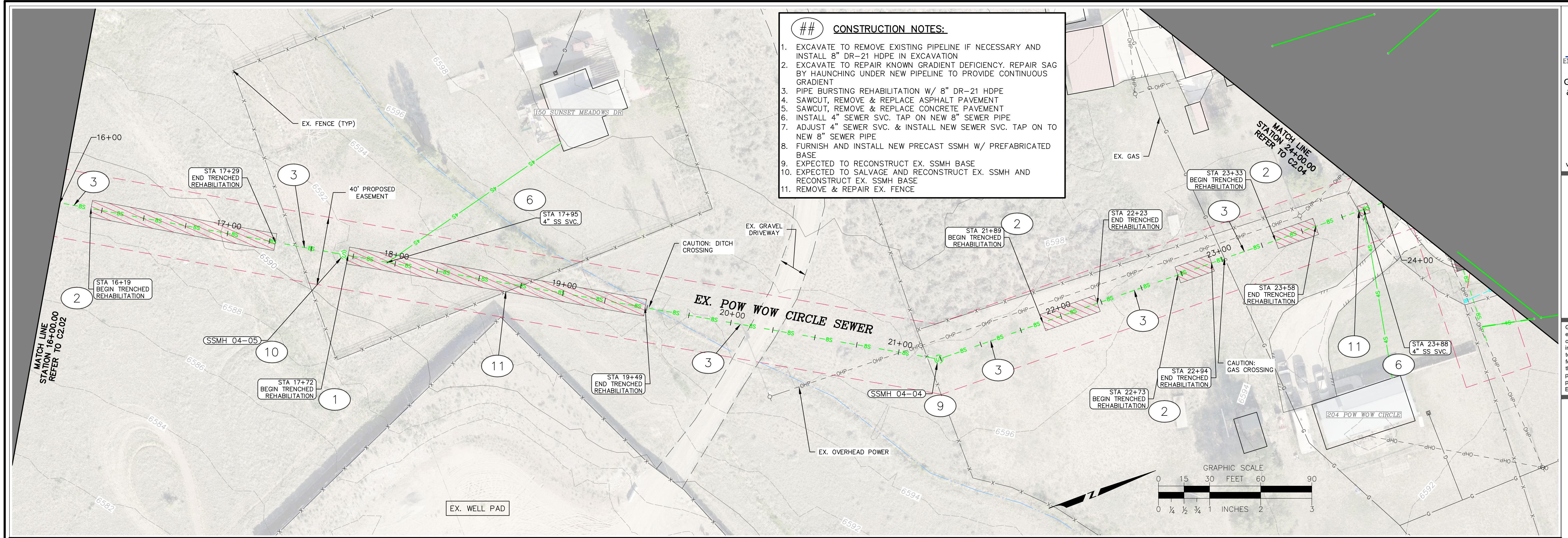
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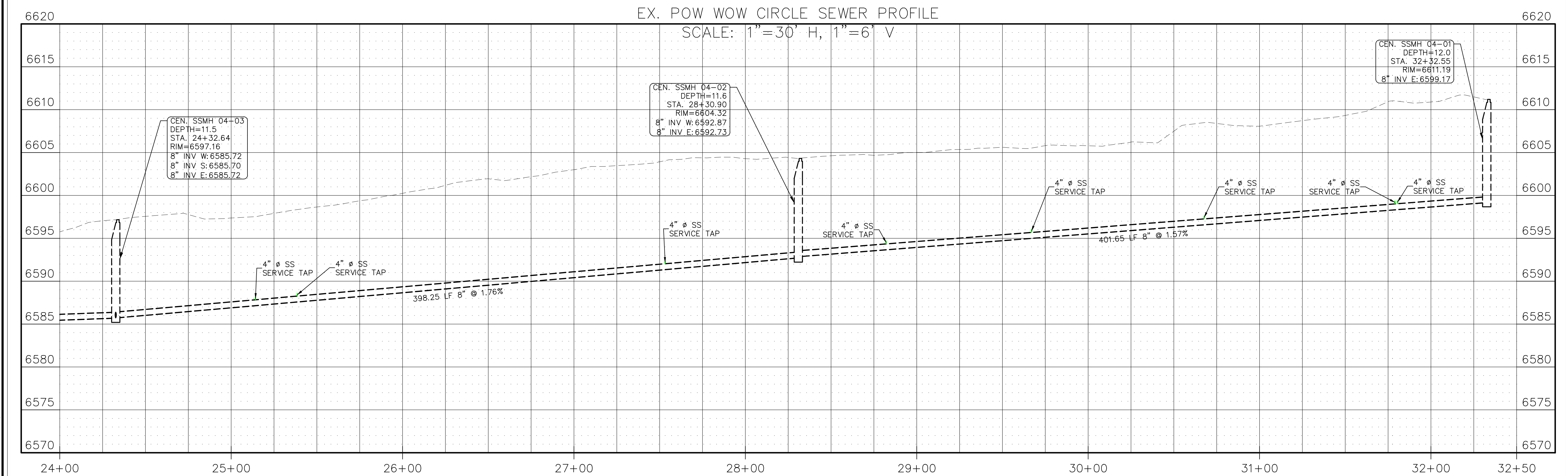
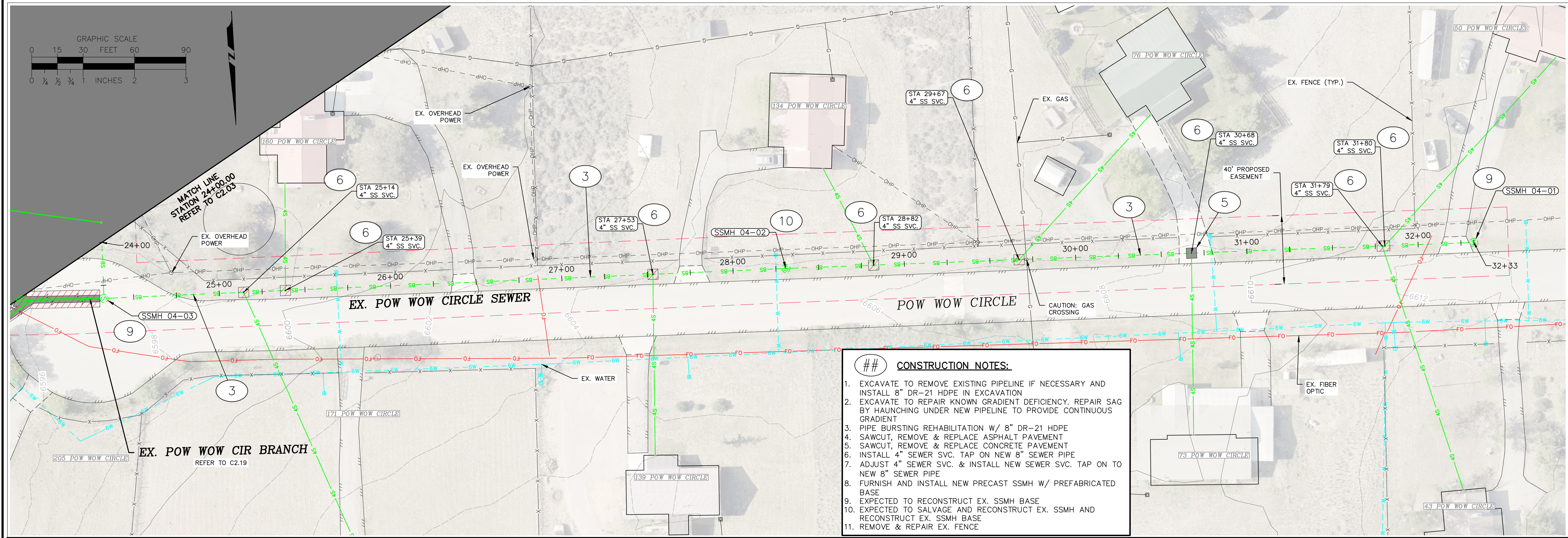
Project Number: 23-186
Drawn By: JAE/ANW
Designed by: JAE/ANW
Checked By: RSH

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C2.01

**POW WOW CIRCLE
SEWER PLAN &
PROFILE**

g:\2023\23-186 sub1 northbridge sewer rehab\work\plans\C2.01 plan view circle sewer plan & profile.dwg DATE: 6/12/2025 USER: ANNIE MANN PLOT SCALE=1:1





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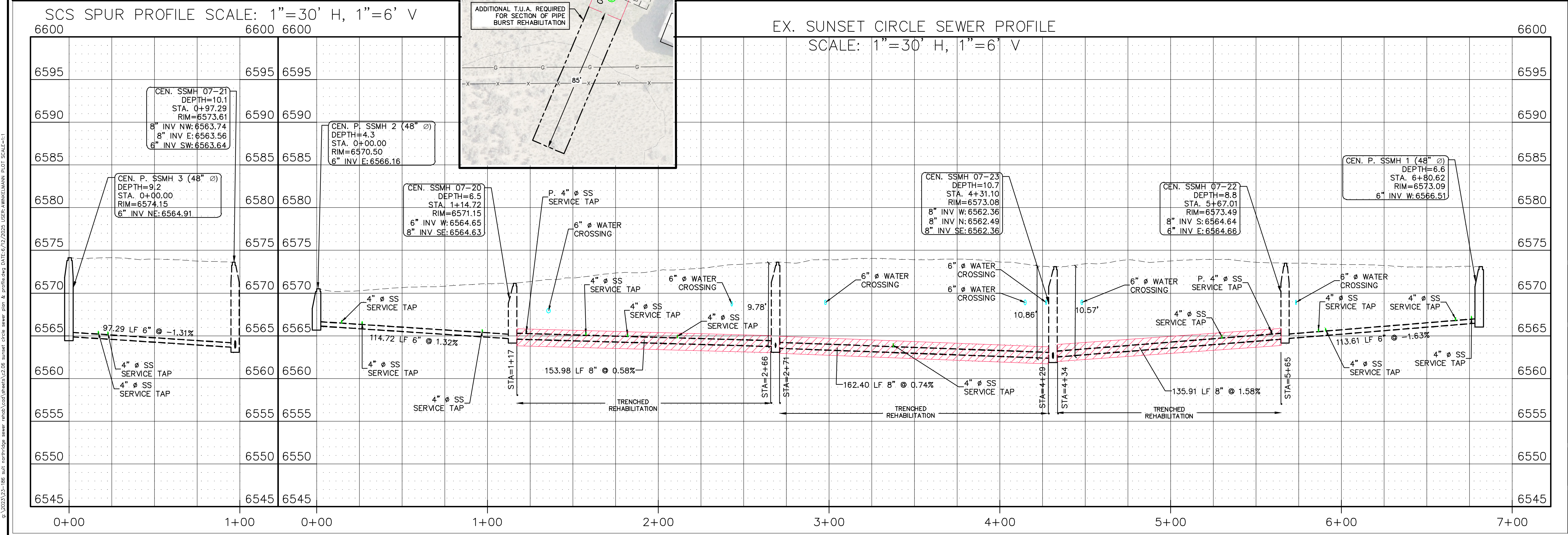
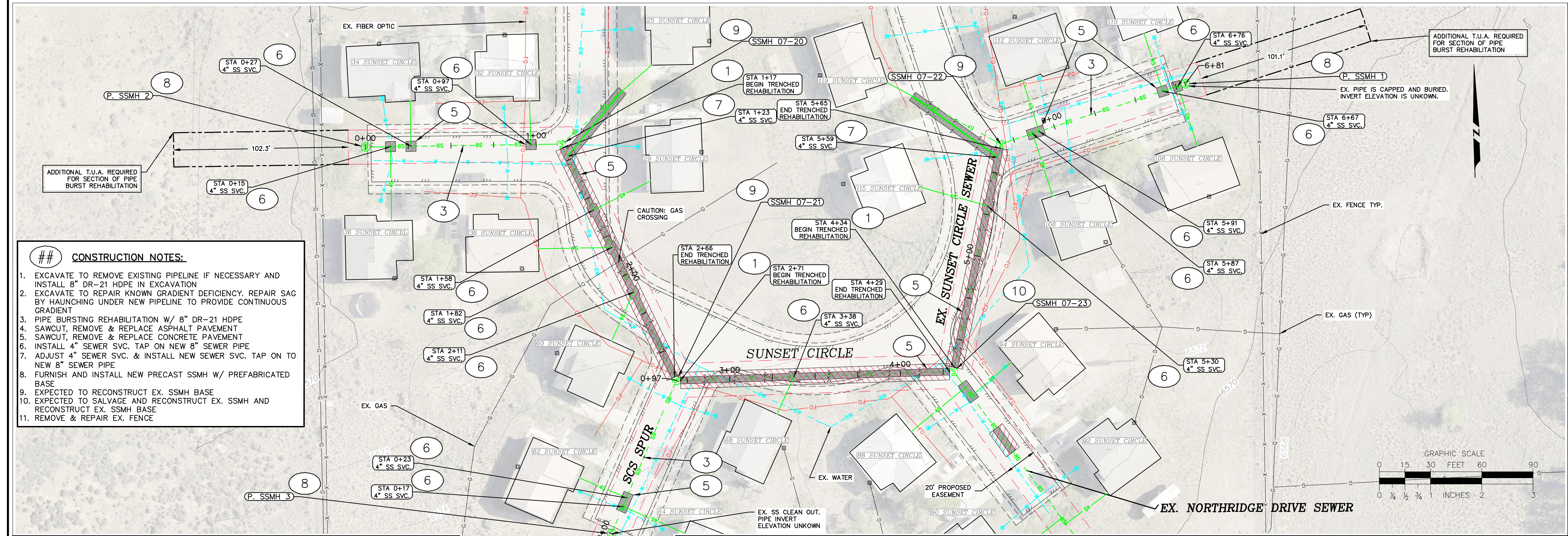
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POW WOW CIRCLE
SEWER PLAN &
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-

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SUNSET REDDINGS SEWER PLAN & PROFILE	



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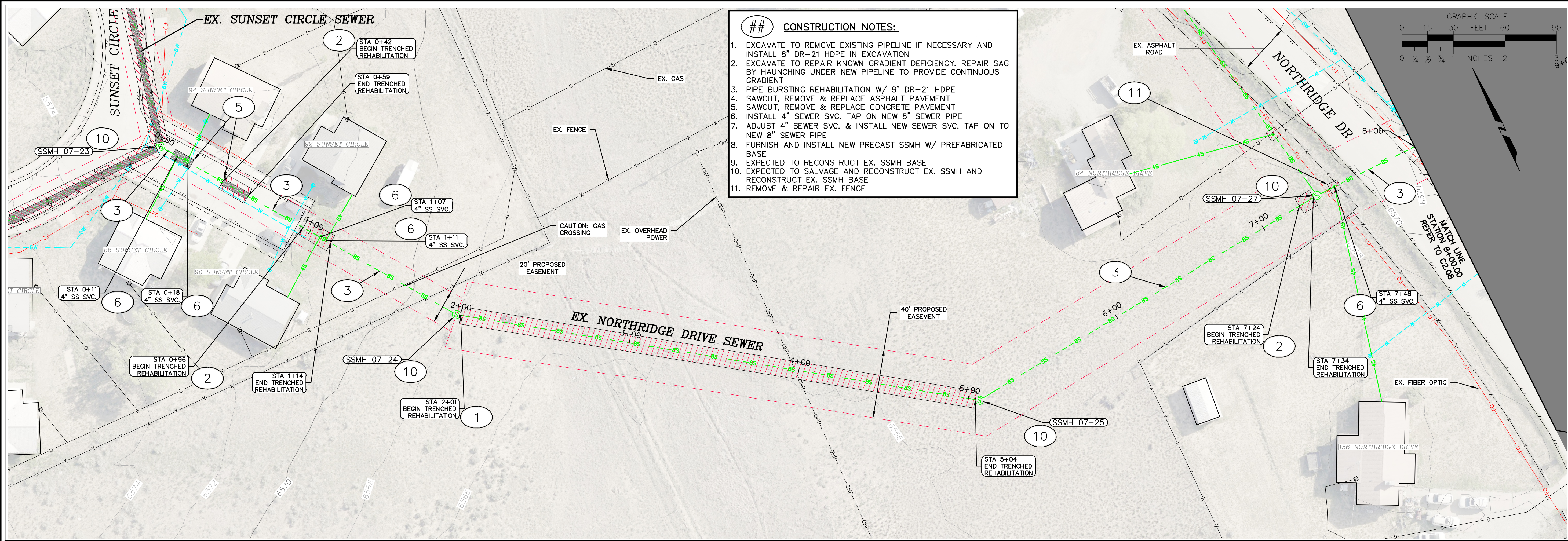
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Sheet **C2.06**

SUNSET CIRCLE SEWER PLAN & PROFILE



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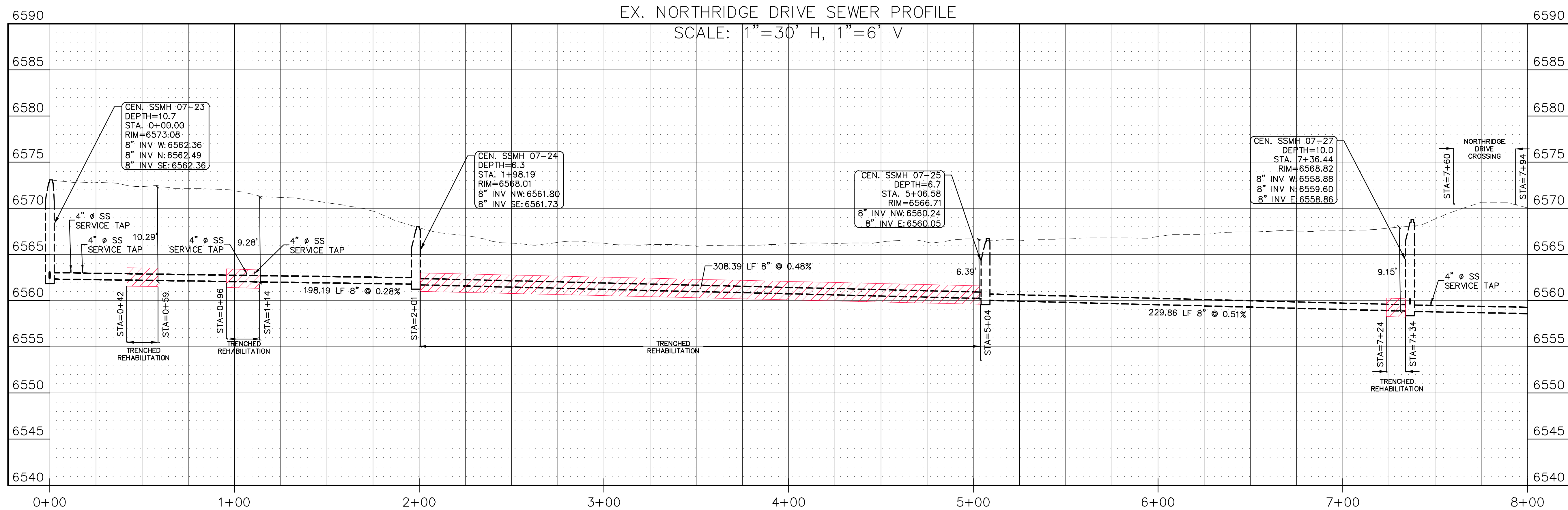
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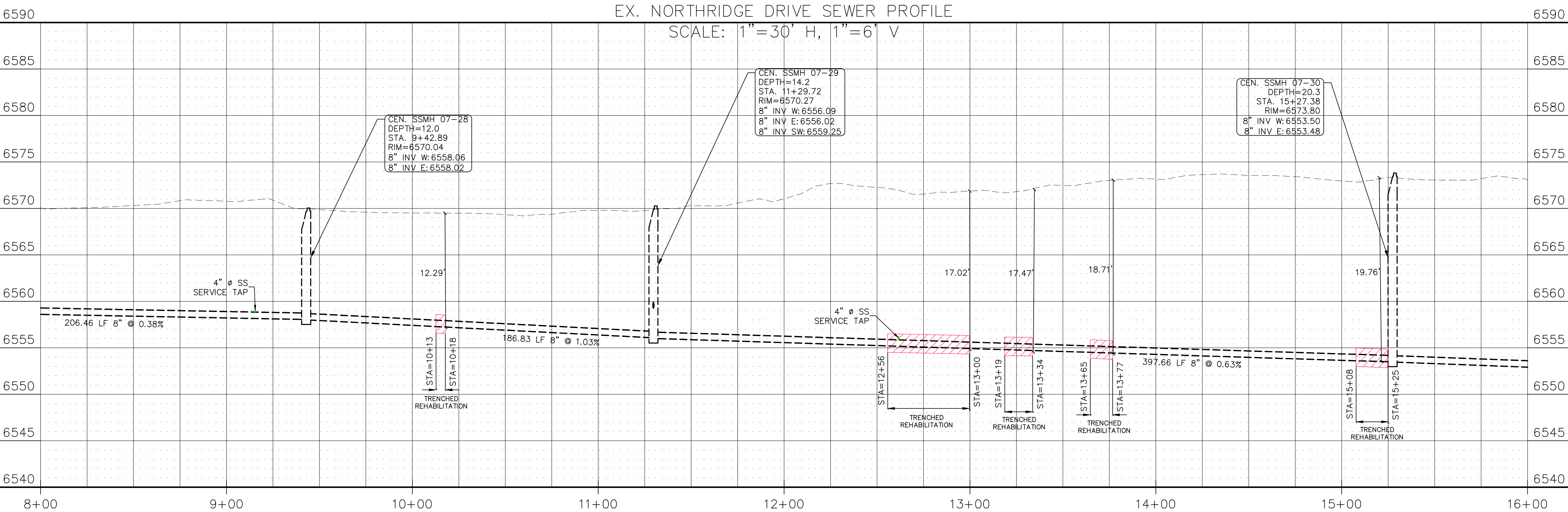
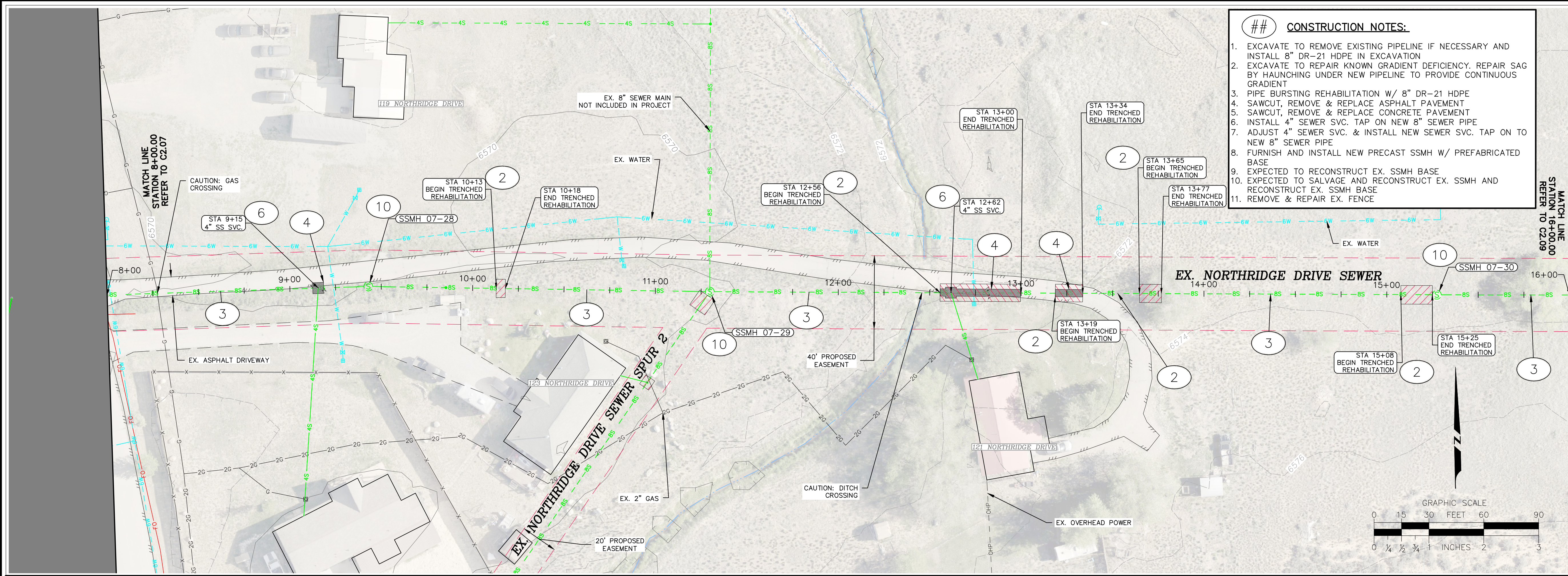
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C2.07
NORTHDRIVE DRIVE SEWER PLAN & PROFILE



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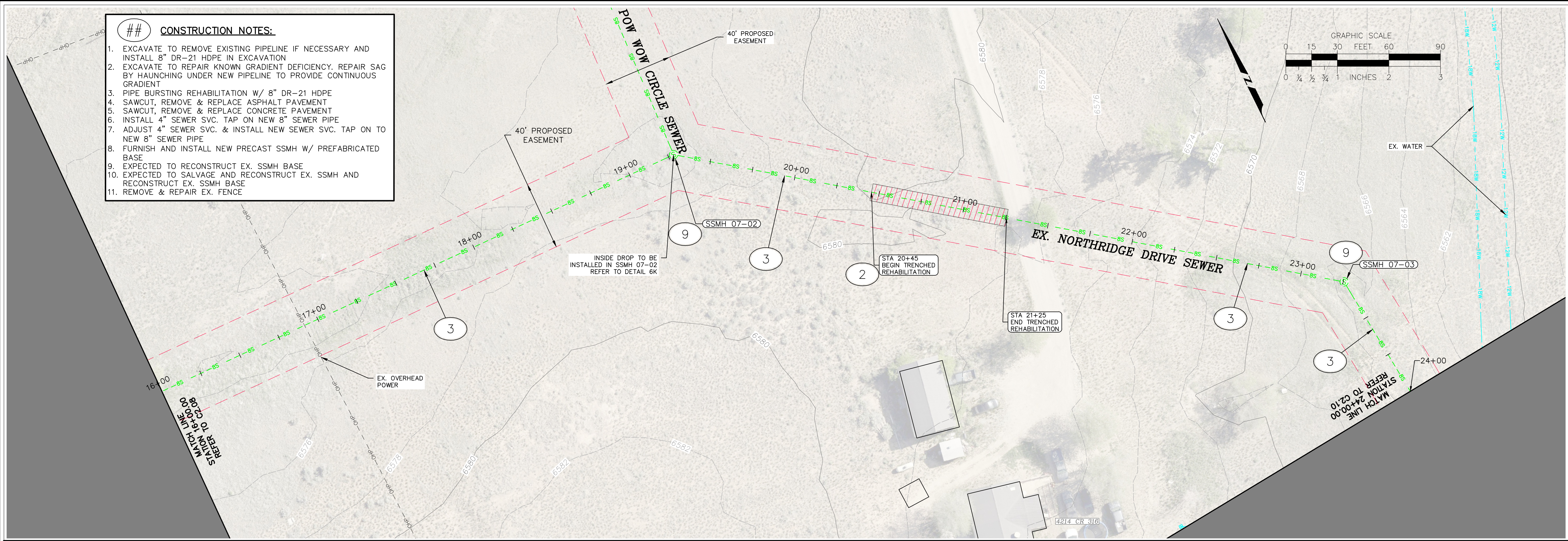
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C2.08

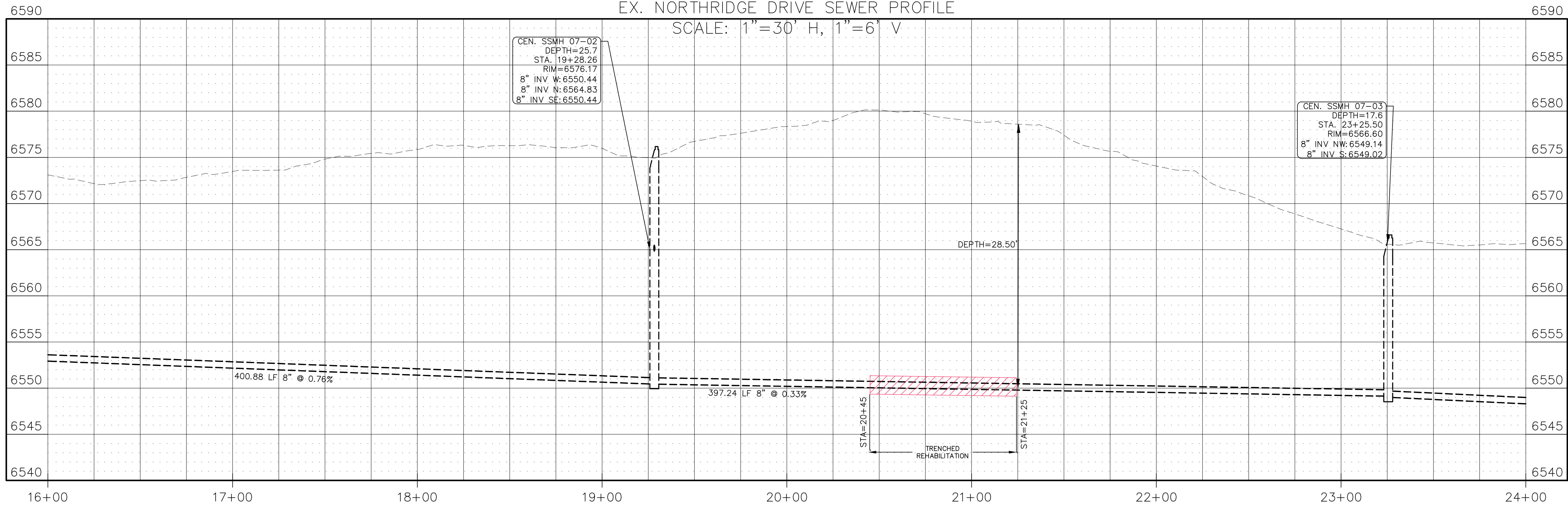
**NORTHBRIDGE DRIVE
SEWER PLAN &
PROFILE**

g:\2025\05-186 sub1 northridge sewer rehab\work\sheet\c2.09 northridge drive sewer plan & profile.dwg DATE: 6/12/2025 USER: AMELIA WAIN PLT SCALE: 1:1



EX. NORTHRIDGE DRIVE SEWER PROFILE

SCALE: 1"=30' H, 1"=6' V



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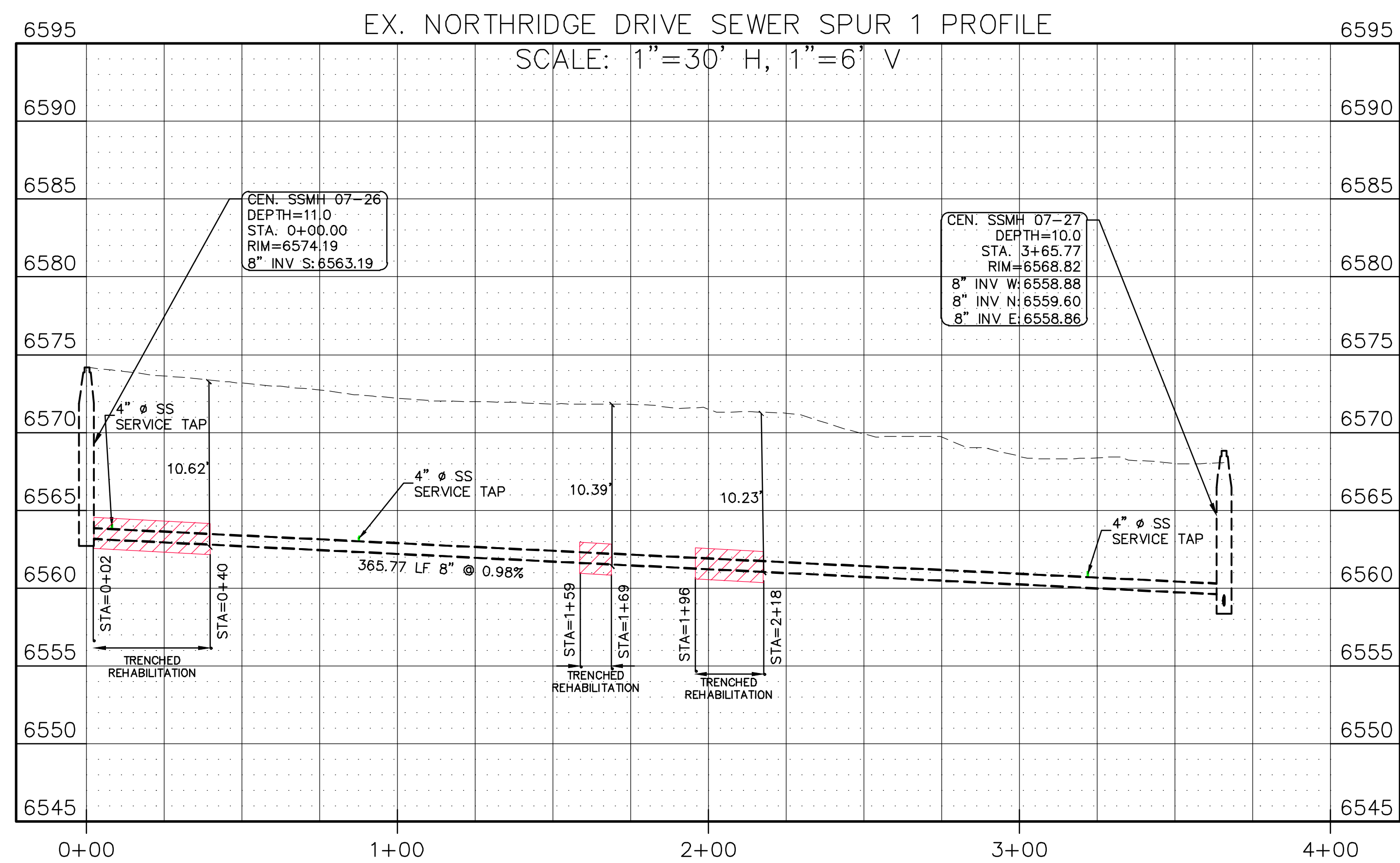
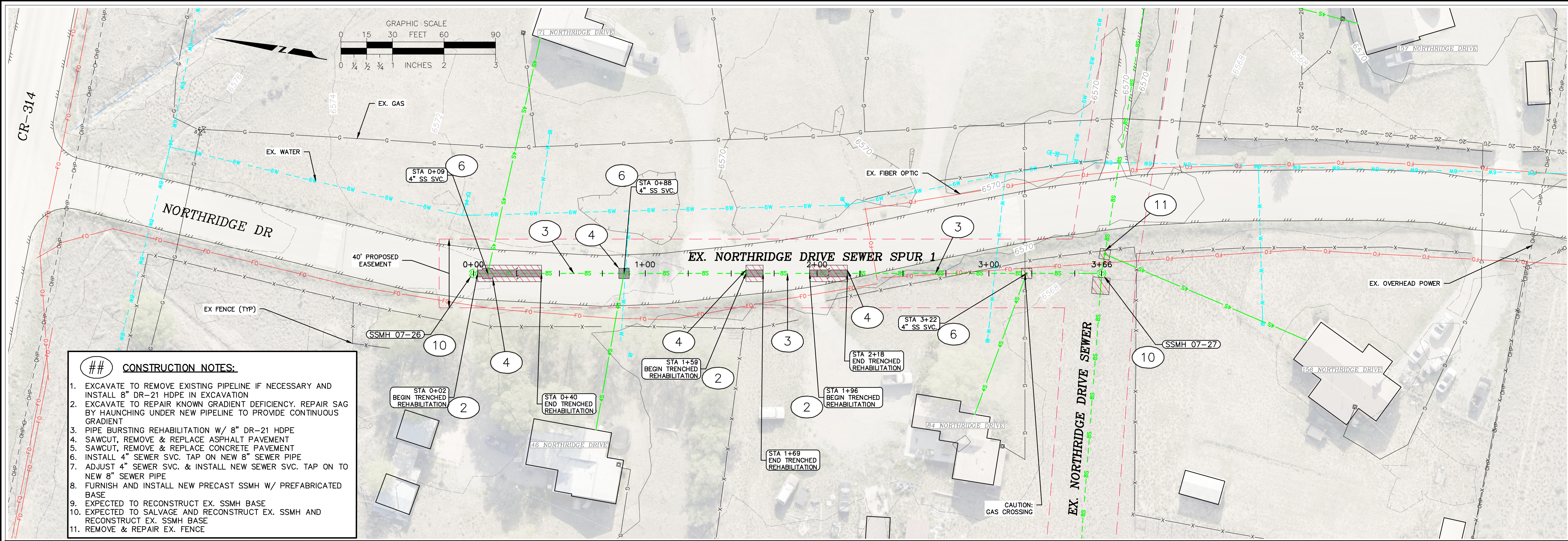
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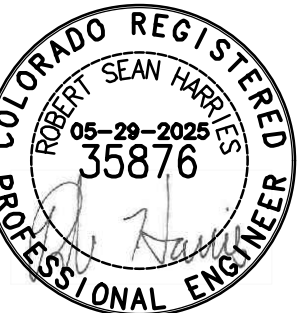
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**NORTHRIDGE DRIVE
SEWER PLAN &
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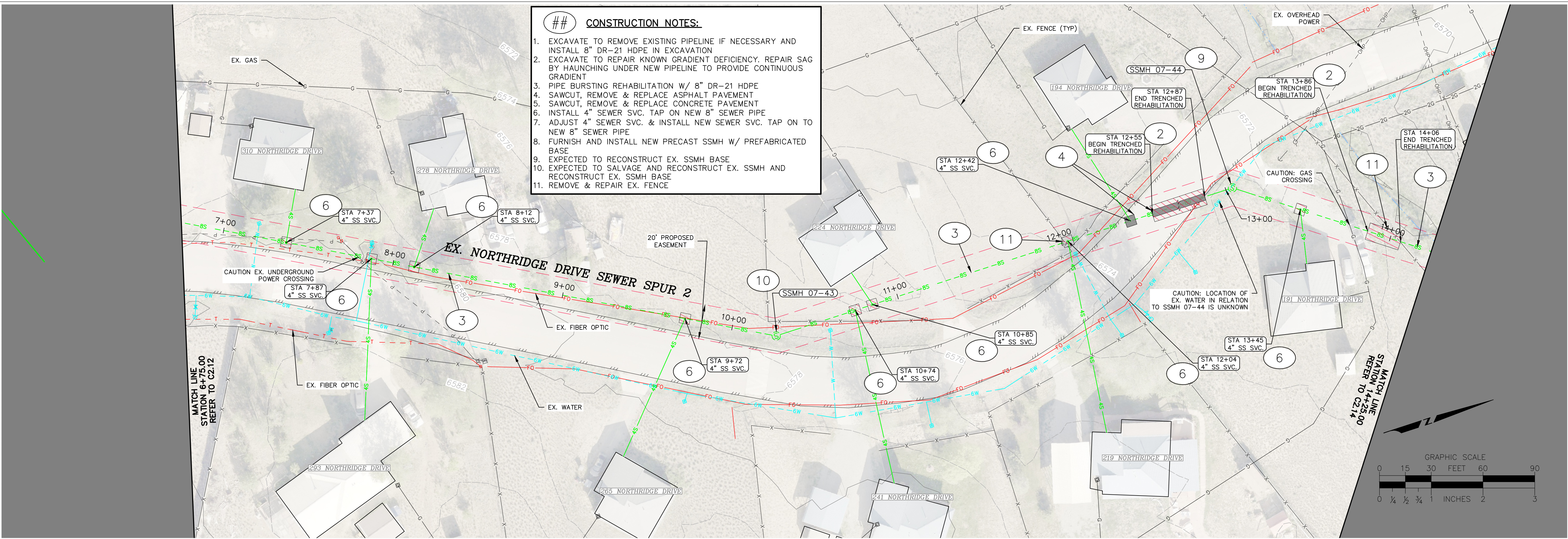
**NORTHRIDGE DRIVE
SEWER SPUR 1 PLAN
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NORTHBRIDGE DRIVE SEWER SPUR 2 PLAN & PROFILE	



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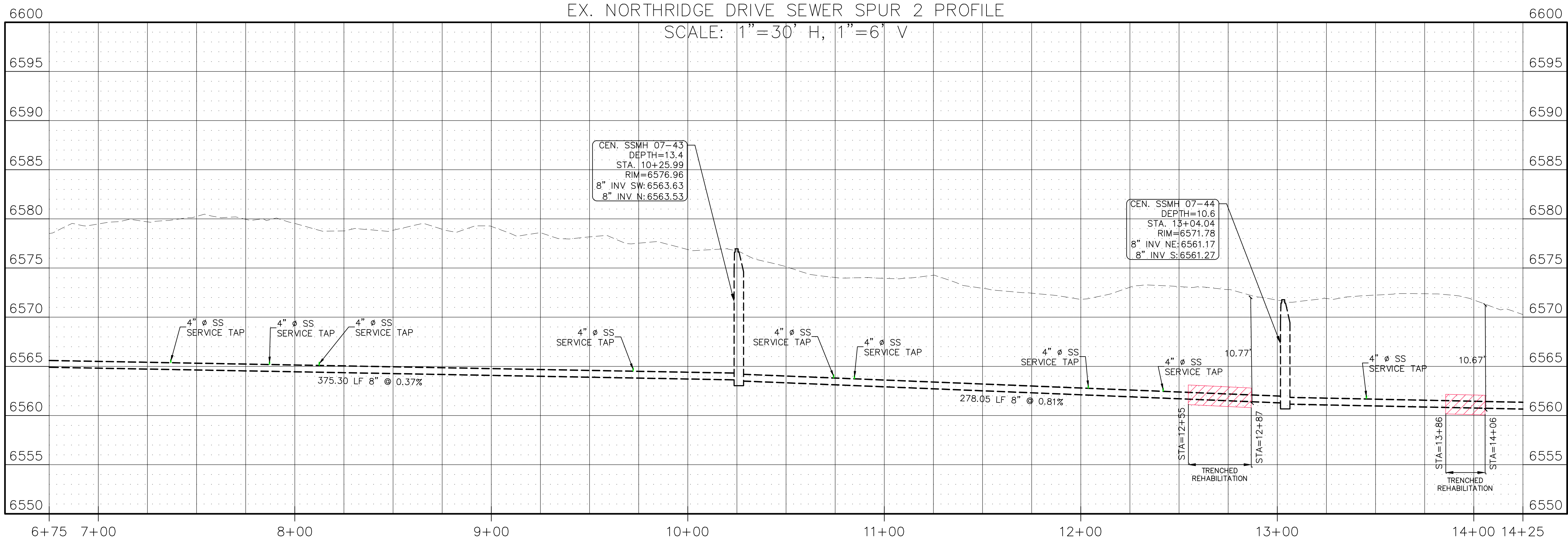
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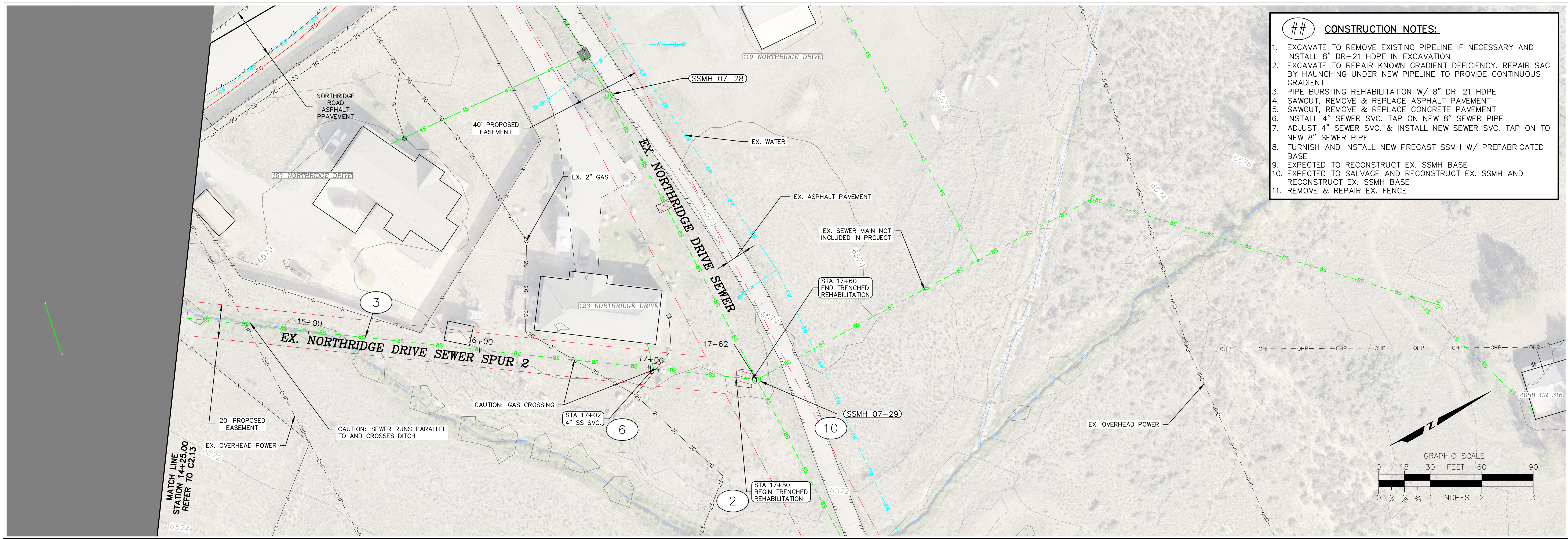
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**NORTHRIDGE DRIVE
SEWER SPUR 2 PLAN
& PROFILE**



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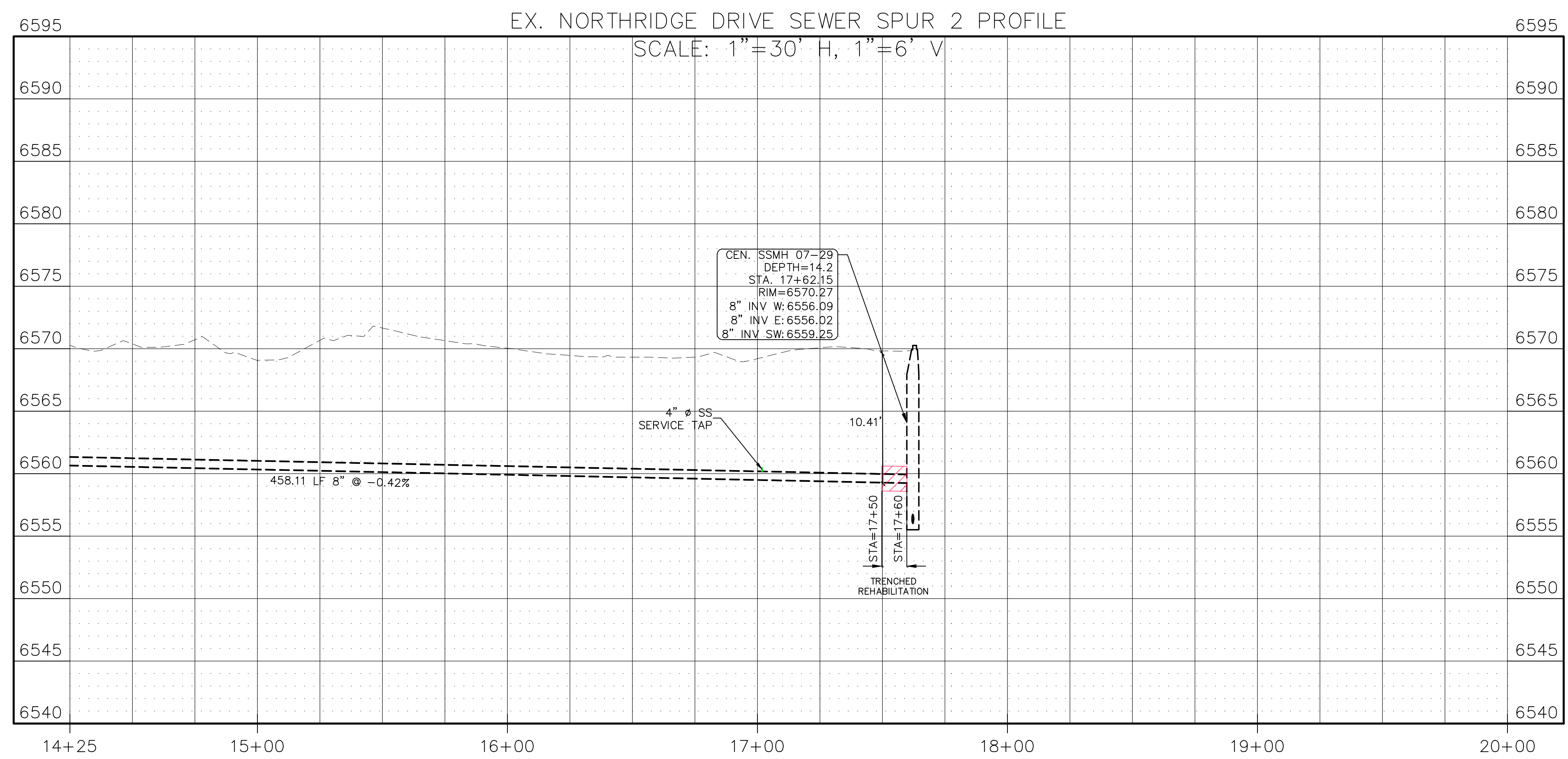
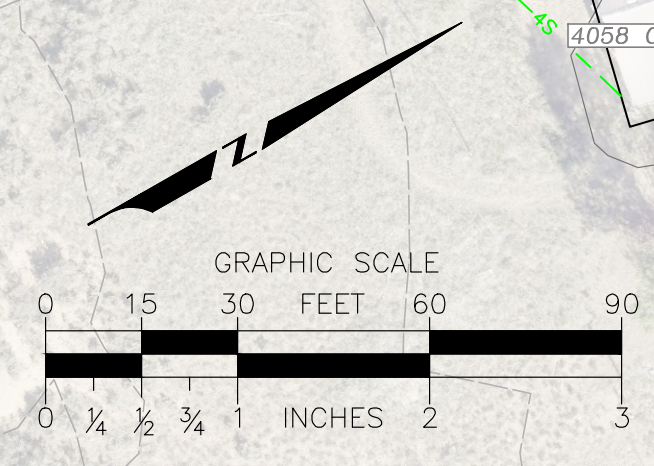


- ## CONSTRUCTION NOTES:**
1. EXCAVATE TO REMOVE EXISTING PIPELINE IF NECESSARY AND INSTALL 8" DR-21 HDPE IN EXCAVATION
 2. EXCAVATE TO REPAIR KNOWN GRADIENT DEFICIENCY. REPAIR SAG BY HAUNCHING UNDER NEW PIPELINE TO PROVIDE CONTINUOUS GRADIENT
 3. PIPE BURSTING REHABILITATION W/ 8" DR-21 HDPE
 4. SAWCUT, REMOVE & REPLACE ASPHALT PAVEMENT
 5. SAWCUT, REMOVE & REPLACE CONCRETE PAVEMENT
 6. INSTALL 4" SEWER SVC. TAP ON NEW 8" SEWER PIPE
 7. ADJUST 4" SEWER SVC. & INSTALL NEW SEWER SVC. TAP ON TO NEW 8" SEWER PIPE
 8. FURNISH AND INSTALL NEW PRECAST SSMH W/ PREFABRICATED BASE
 9. EXPECTED TO RECONSTRUCT EX. SSMH BASE
 10. EXPECTED TO SALVAGE AND RECONSTRUCT EX. SSMH AND RECONSTRUCT EX. SSMH BASE
 11. REMOVE & REPAIR EX. FENCE

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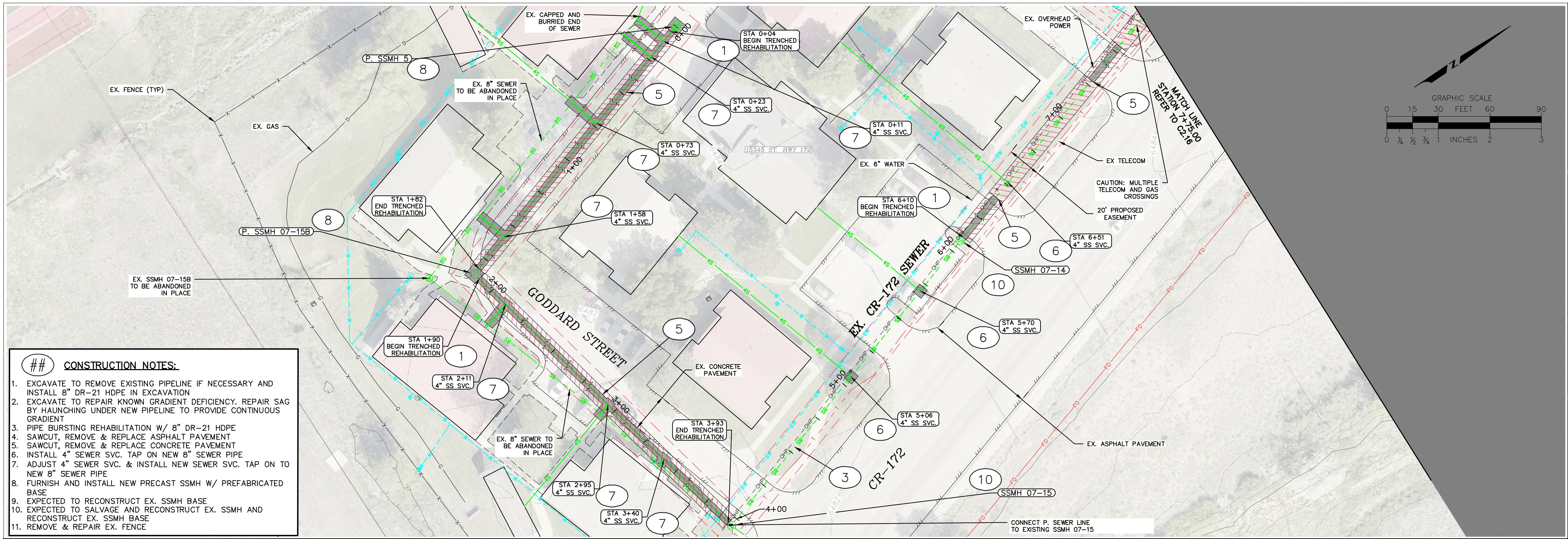
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**NORTHRIDGE DRIVE
SEWER SPUR 2 PLAN
& PROFILE**



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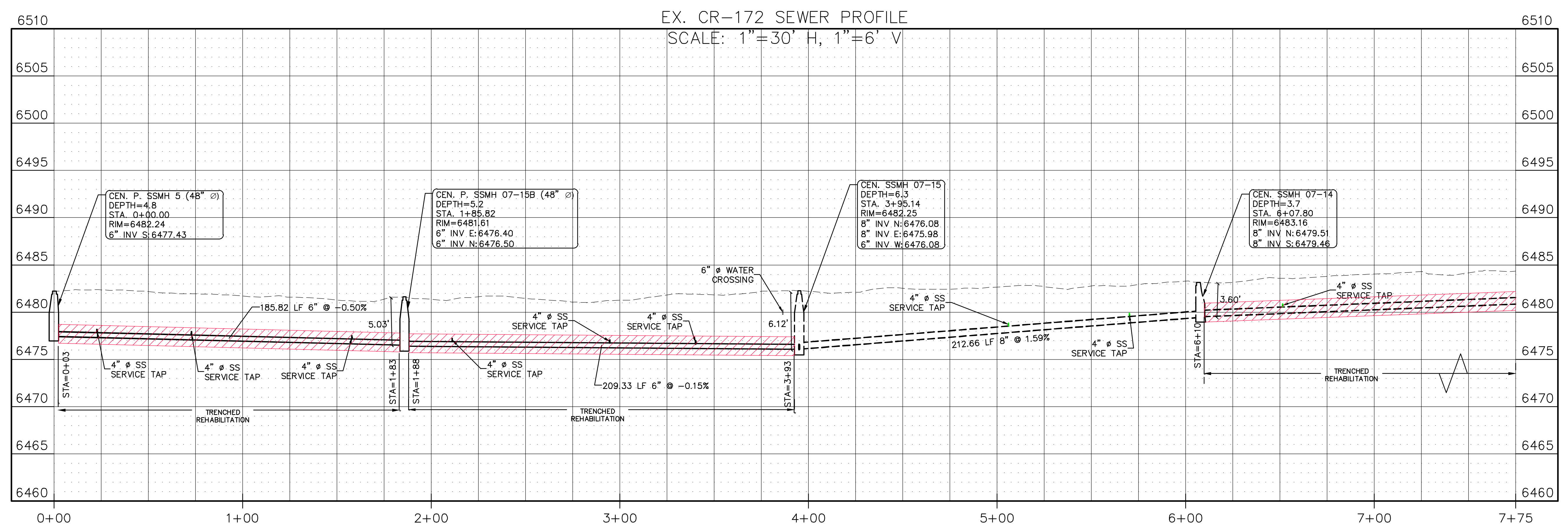
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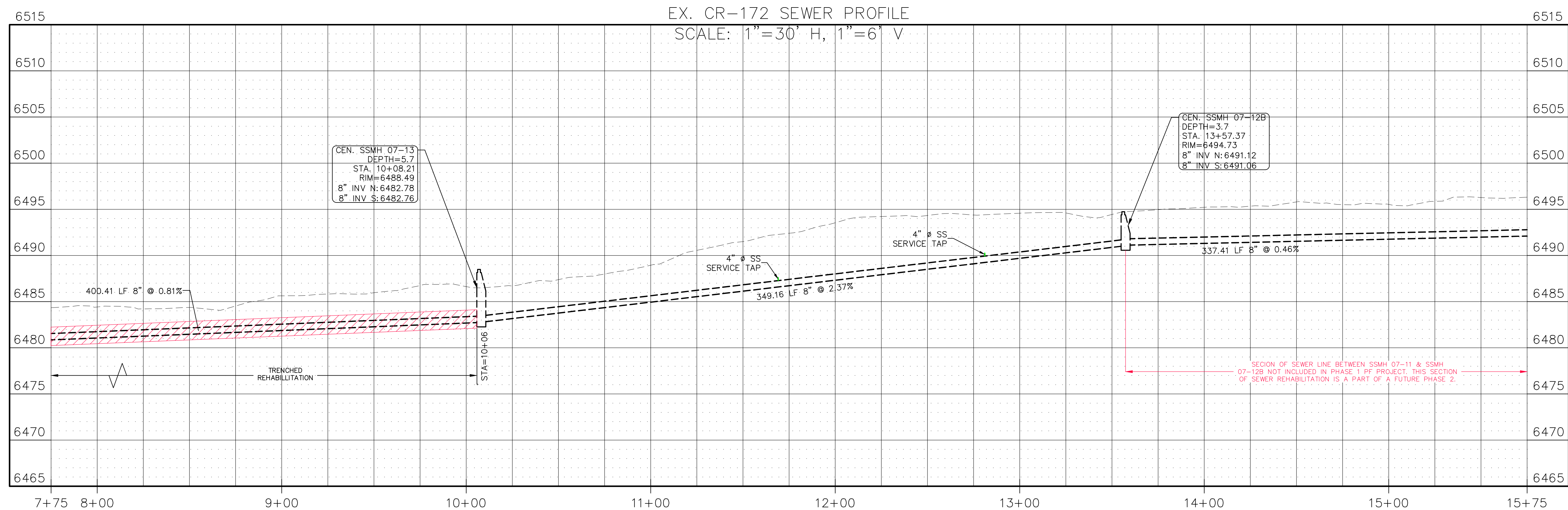
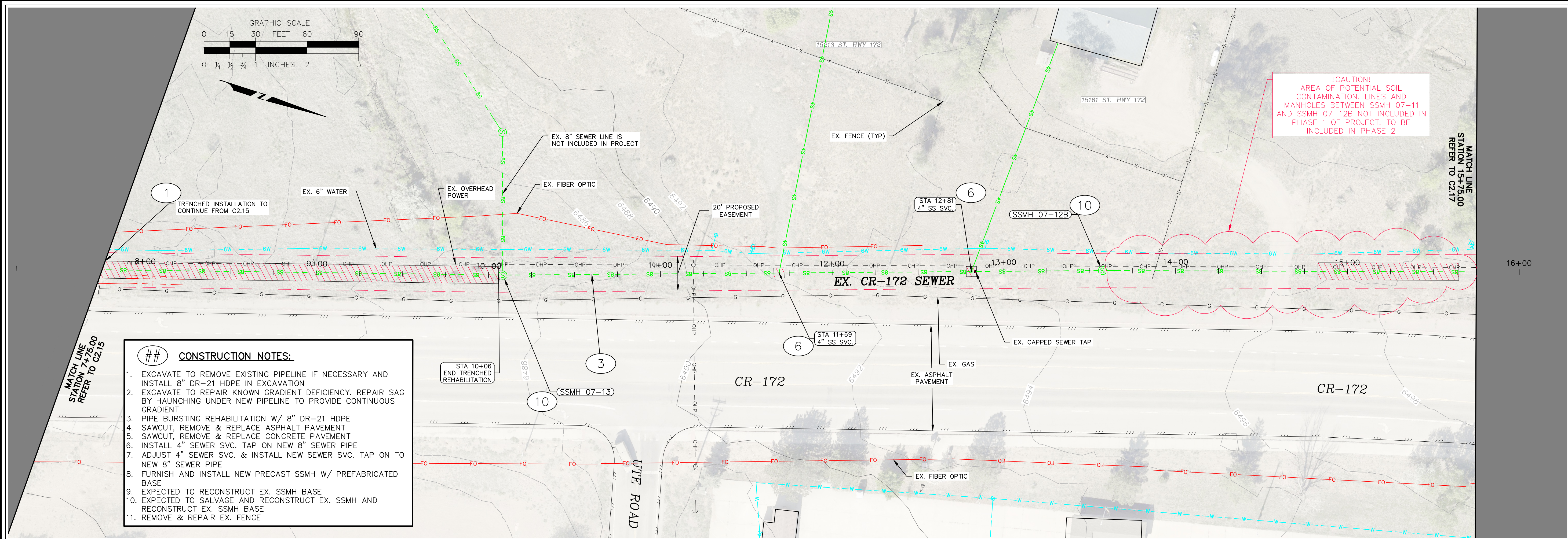
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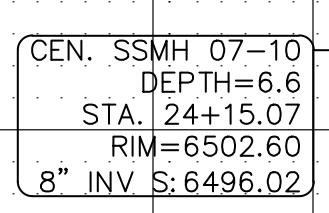
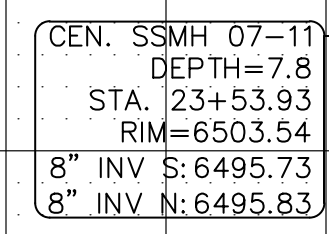
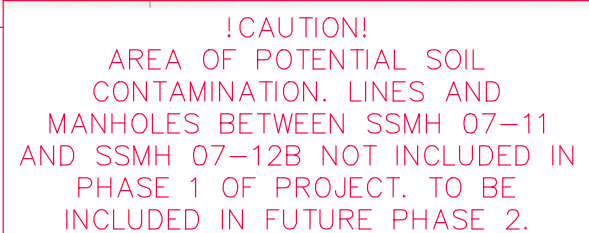


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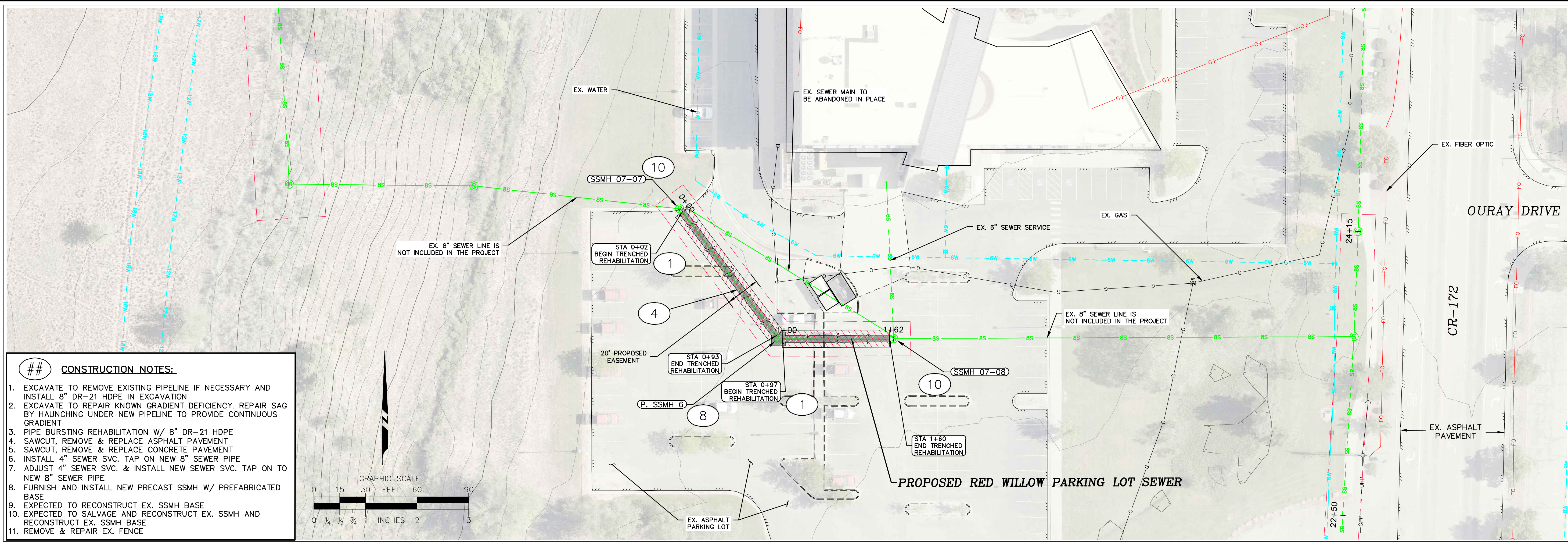


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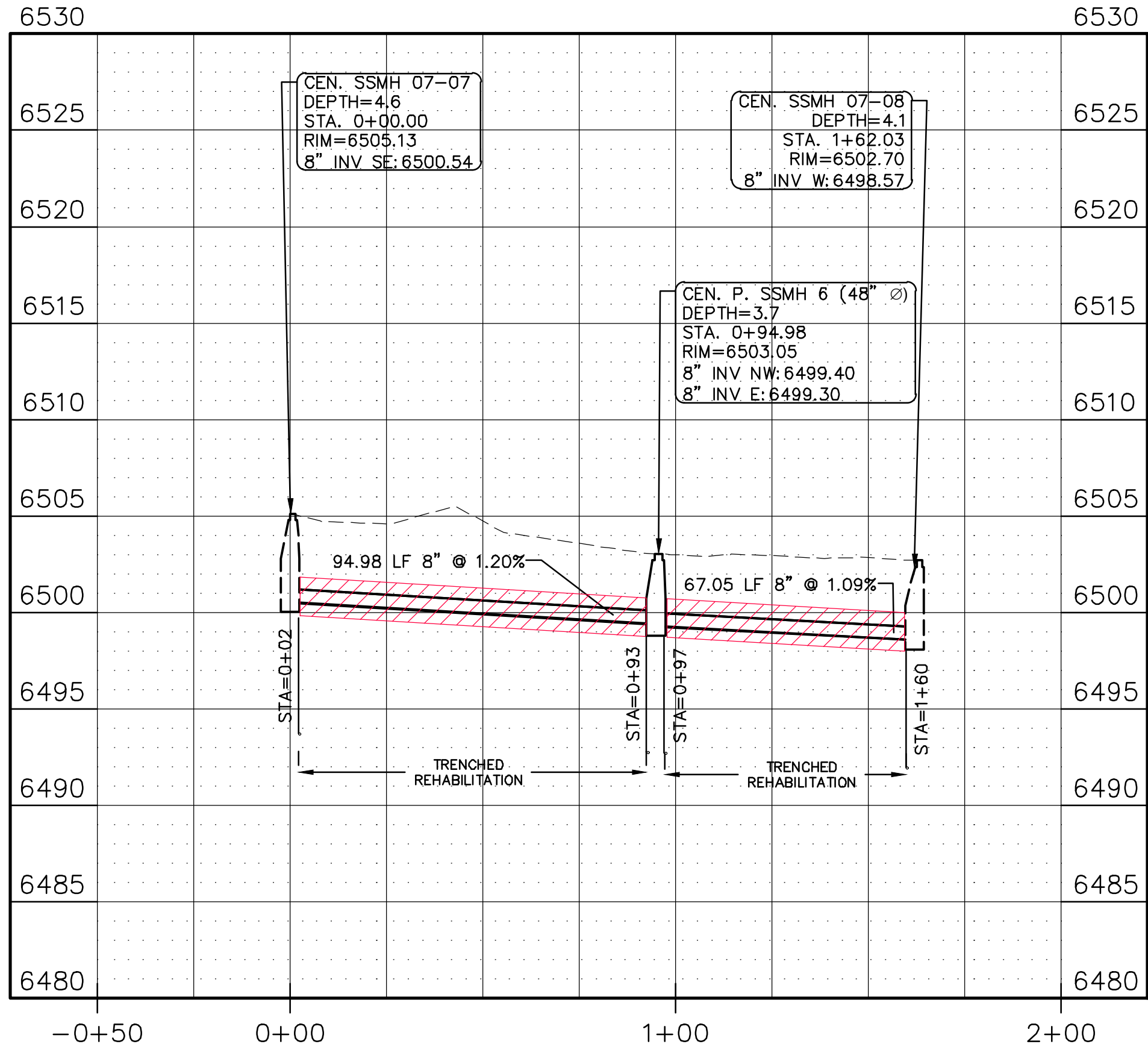
SECTION OF SEWER LINE BETWEEN SSMH 07-11 & SSMH 07-12B NOT INCLUDED IN PHASE 1 OF PROJECT. THIS SECTION OF SEWER REHABILITATION IS A PART OF A FUTURE PHASE 2

g:\2023\23-186 sub1 northridge sewer rehab\work\plans\c2.19 and willow parking lot sewer plan & profile.dwg DATE: 6/12/2025 USER: ANNEJAMN PLOT SCALE=1:1



- ## CONSTRUCTION NOTES:**
1. EXCAVATE TO REMOVE EXISTING PIPELINE IF NECESSARY AND INSTALL 8" DR-21 HDPE IN EXCAVATION
 2. EXCAVATE TO REPAIR KNOWN GRADIENT DEFICIENCY. REPAIR SAG BY HAUNCHING UNDER NEW PIPELINE TO PROVIDE CONTINUOUS GRADIENT
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 9. EXPECTED TO RECONSTRUCT EX. SSMH BASE
 10. EXPECTED TO SALVAGE AND RECONSTRUCT EX. SSMH AND RECONSTRUCT EX. SSMH BASE
 11. REMOVE & REPAIR EX. FENCE

PROPOSED RED WILLOW PARKING LOT SEWER PROFILE
SCALE: 1"=30' H, 1"=6' V



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Project Number: 23-186
Drawn By: JAE/ANW
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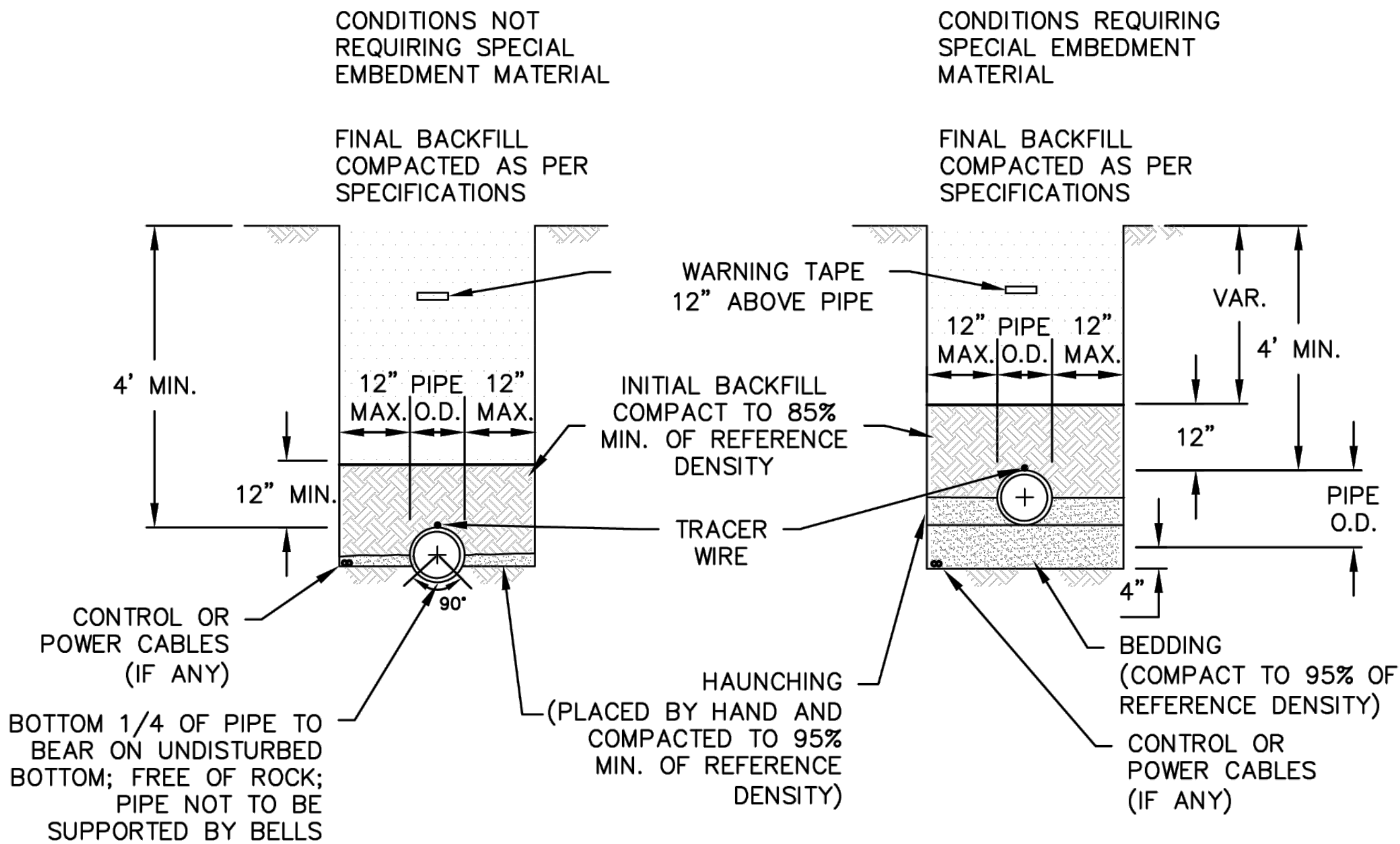
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**RED WILLOW
PARKING LOT
SEWER PLAN &
PROFILE**

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NOTES:

1. SPECIAL IMPORTED BEDDING AND HAUNCHING MATERIAL SHALL MEET THE CRITERIA OF THE UNIFIED SOILS CLASSIFICATION SYSTEM FOR GW, GP, SW OR SP SOILS.
2. ATTACH TRACER WIRE TO PIPE 3 TIMES PER 20' PIPE LENGTH, MINIMUM.
3. TRACER WIRE IS REQUIRED ON WATER MAINS, WATER SERVICE LINES AND SEWER FORCE MAINS PER TP-04, TP-05 AND TP-43.



1A

TYPICAL TRENCH SECTION

NTS

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

DETAIL NAME:

TYPICAL TRENCH SECTIONS

FILE NAME:

IHS-STD-BLOCKS-2021

DETAIL NO.

1A

NOTES:

1. WATERSTOP GASKET GROUTED INSIDE MANHOLE WALL REQUIRED FOR PIPE CONNECTIONS.
2. CONE SHALL BE CENTERED ON THE SEWER LINE ON THE UPSTREAM SIDE OF THE MANHOLE.

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

DETAIL NAME:

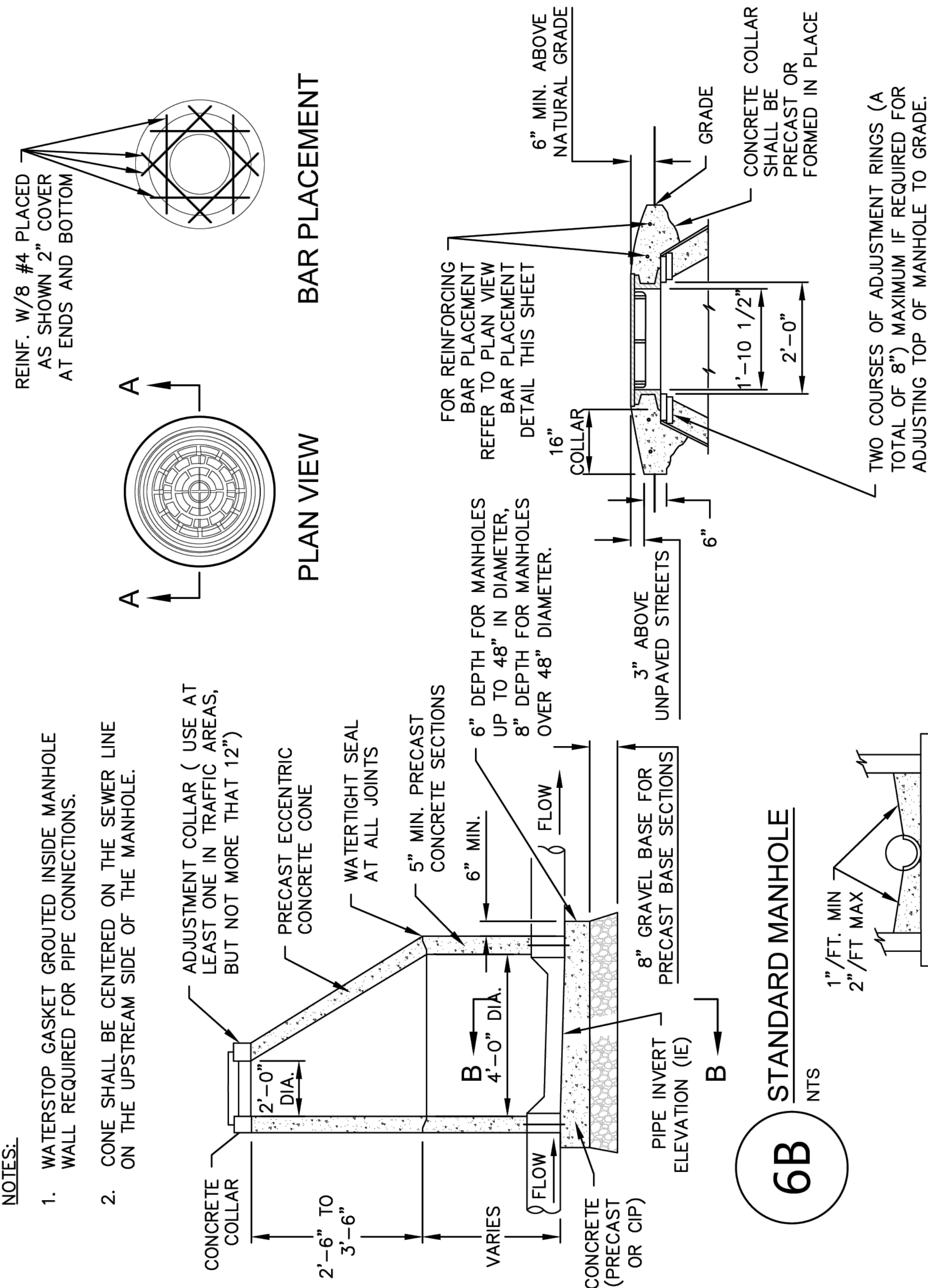
MANHOLE & MANHOLE FRAME
& COVER

FILE NAME:

IHS-STD-BLOCKS-2021

DETAIL NO.

6B



6B

NTS

SECTION B-B

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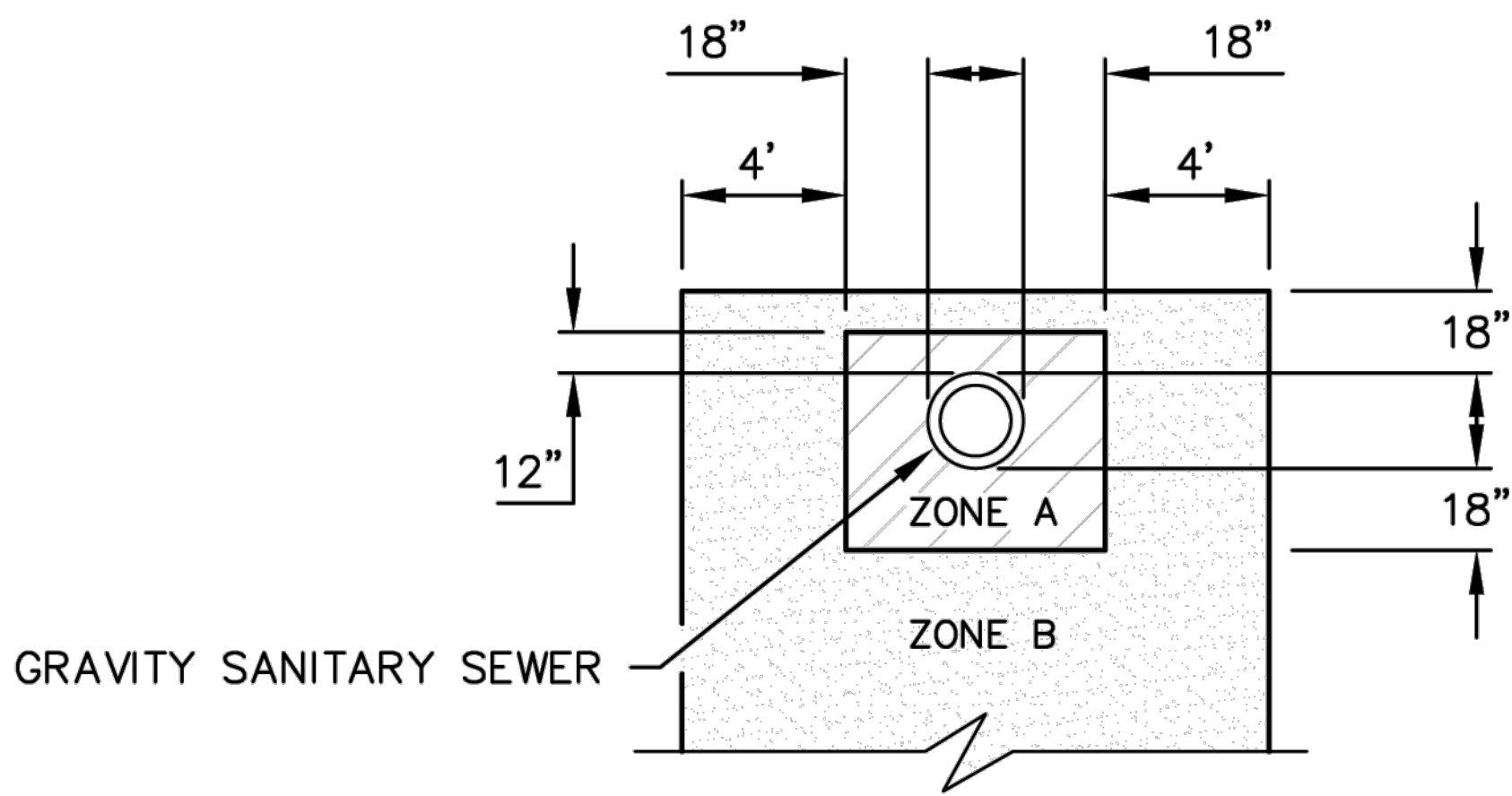
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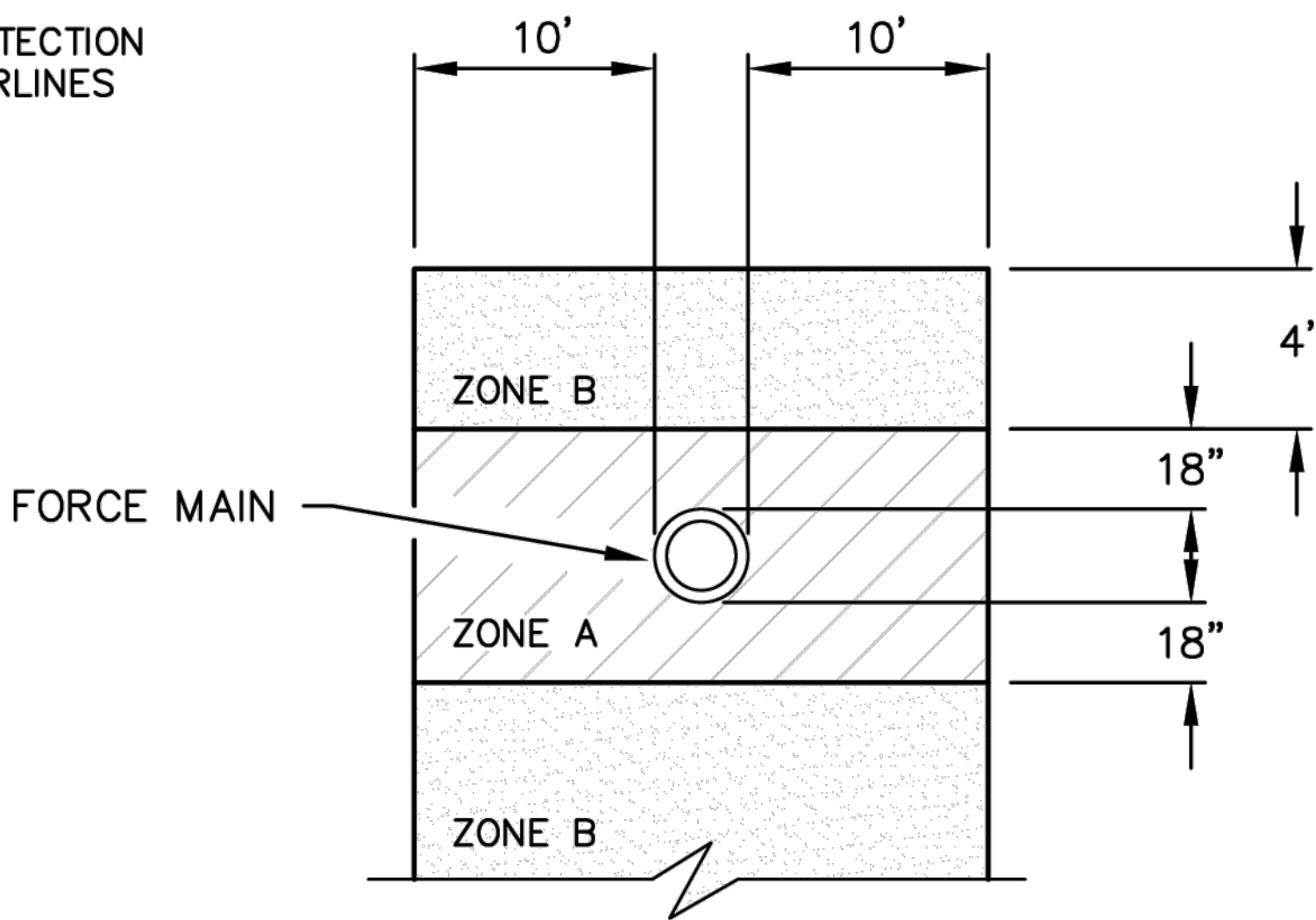
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DETAILS (1)



GRAVITY SANITARY SEWER

- NOTES:
- ZONE A: NO WATER LINES ALLOWED, MINIMUM SEPARATION
 - ZONE B: EXTRA PROTECTION REQUIRED FOR WATERLINES



PRESSURIZED SANITARY SEWER

4G

WATER & SANITARY SEWER SEPARATION / PROTECTION

NTS

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

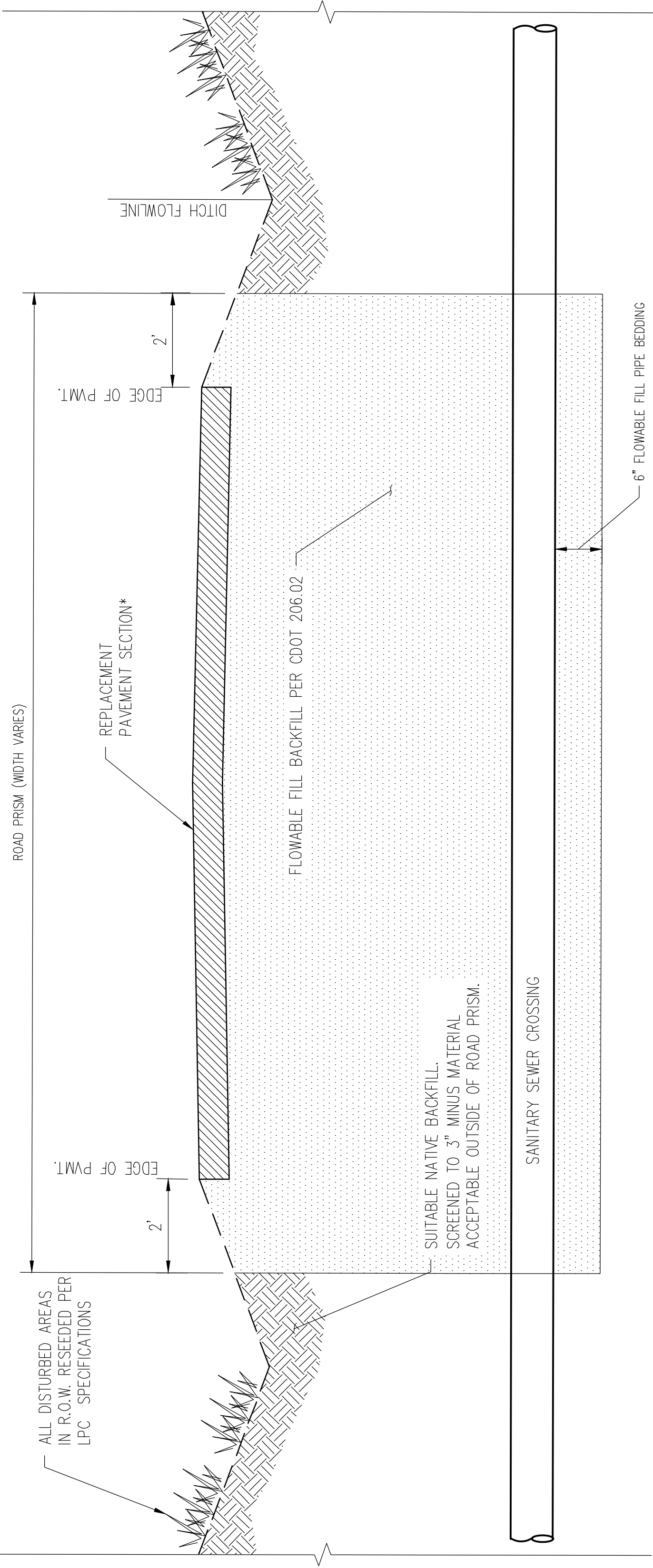
DETAIL NAME:
WATER & SANITARY SEWER
SEPARATION / PROTECTION

FILE NAME:
IHS-STD-BLOCKS-2021

DETAIL NO.
4G

- *NOTES:
- REPLACEMENT PAVEMENT SECTION TO MEET FOLLOWING REQUIREMENTS, OR MATCH EXISTING IF GREATER.

REPLACEMENT PAVEMENT SECTIONS				
ROAD SURFACE	HMA (IN)	CLASS 6 (IN)	CLASS 3 (IN)	MgCl (GAL/SY)
GRAVEL	N/A	3	8	0.5
ASPHALT	5	6	8	N/A



SECTION VIEW

TRENCHING & BACKFILL (COUNTY ROAD 314 X-ING)

SEWER MAIN IMPROVEMENTS PHASE 1

SOUTHERN UTE INDIAN TRIBE

IGNACIO, COLORADO

Issue Record:
ADVERTISEMENT 06/09/2025

Revisions:

Project Number: 23-186
Drawn By: JAE/ANW
Designed by: JAE/ANW
Checked By: RSH

Sheet
C3.02

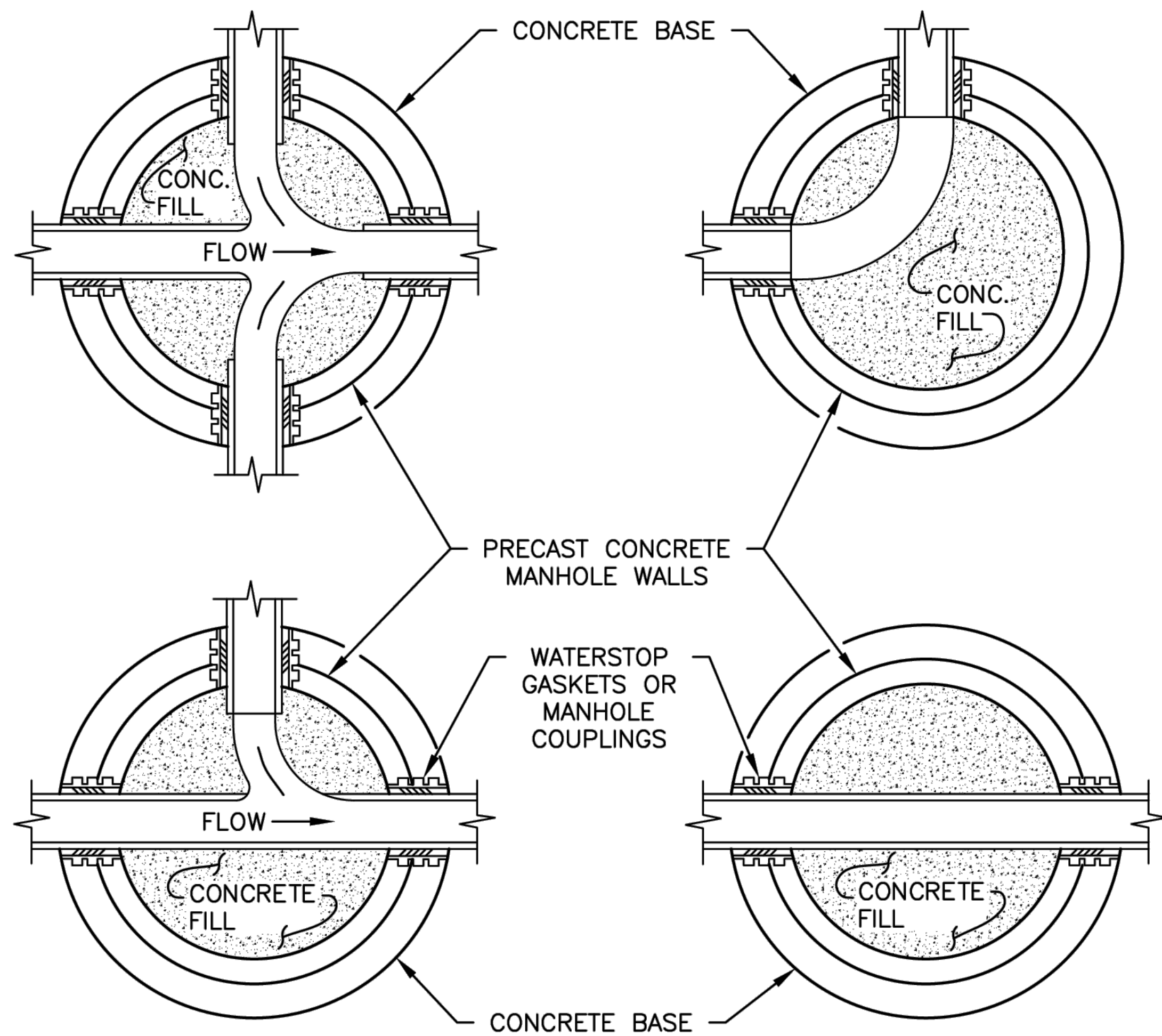
DETAILS (2)

Goff
ENGINEERING & SURVEYING, INC.
126 ROCK POINT
DRIVE SUITE A
P.O. BOX 97
DURANGO,
COLORADO 81302
(970) 247-1705
www.GoffEngineering.com



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g:\2023\23-186 sub1 northridge sewer rehab\cadd\sheet\c3.03 details 131.dwg DATE: 6/9/2025 USER: AMWELMANN PLOT SCALE=1:1



NOTE: WATERSTOP GASKETS OR MANHOLE COUPLINGS MUST BE USED ON ALL LINES CONNECTING TO MANHOLES

6F

INVERT CONSTRUCTION DETAIL

NTS

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

DETAIL NAME:

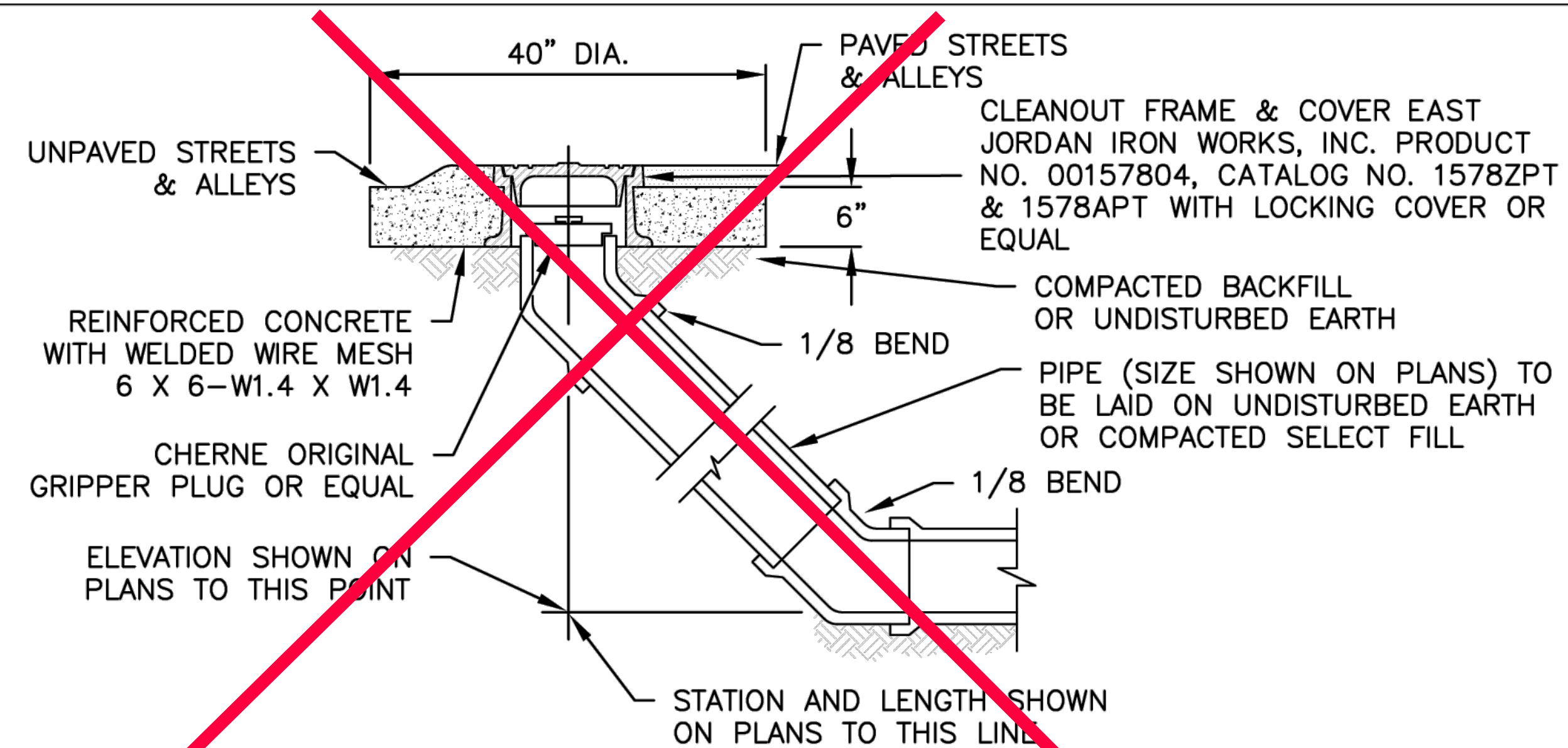
MANHOLE INVERTS

FILE NAME:

IHS-STD-BLOCKS-2021

DETAIL NO.

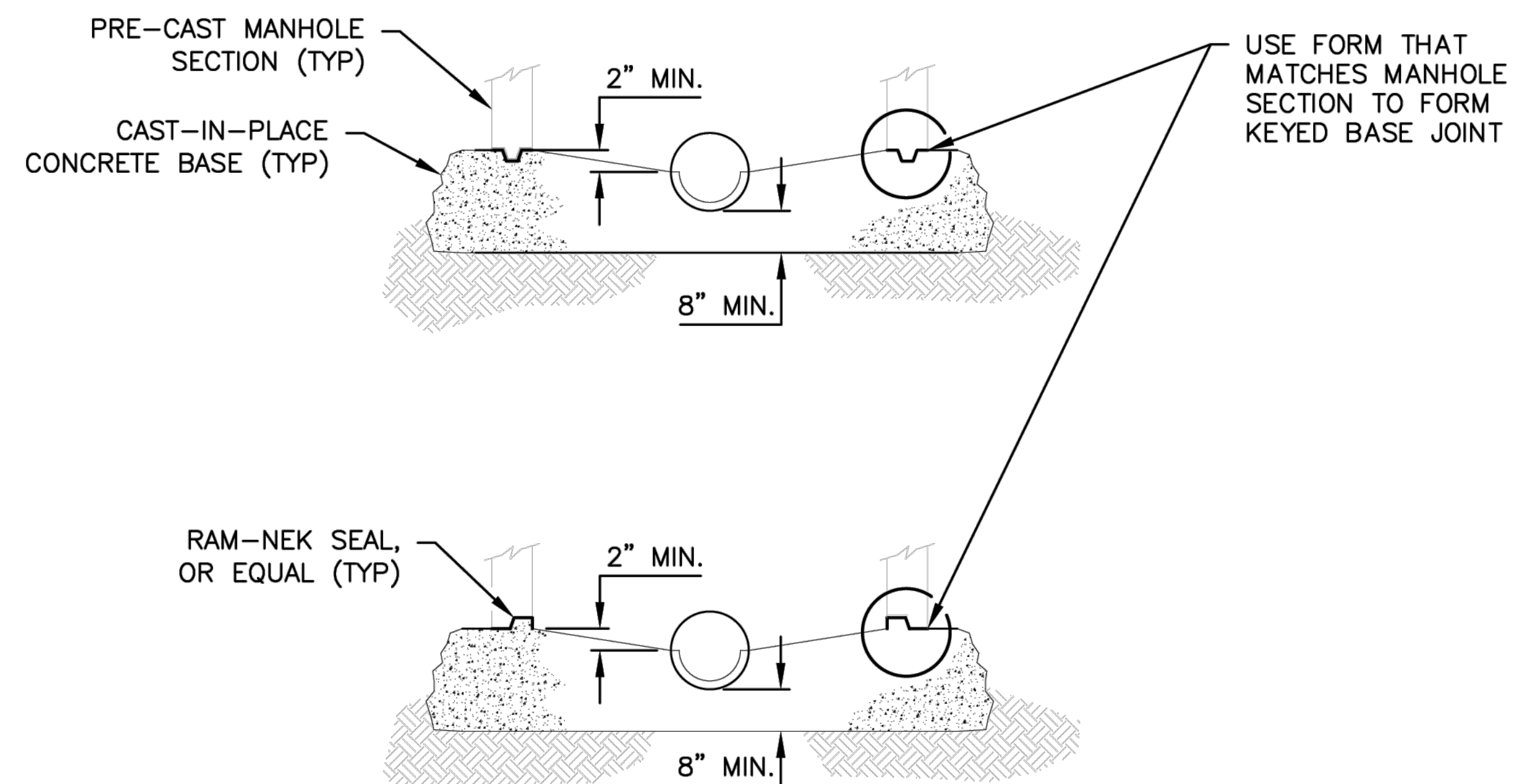
6F



6G

SEWERMAIN CLEANOUT

NTS



6H

CAST-IN-PLACE MANHOLE BASE OPTIONS

NTS

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

DETAIL NAME:

SEWERMAIN CLEANOUT
CAST IN PLACE MANHOLE BASE OPTIONS

FILE NAME:

IHS-STD-BLOCKS-2021

DETAIL NO.

6G, 6H

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SEWER MAIN IMPROVEMENTS PHASE 1
SOUTHERN UTE INDIAN TRIBE
IGNACIO, COLORADO

Issue Record:
ADVERTISEMENT 06/09/2025

Revisions:

Project Number: 23-186

Drawn By: JAE/ANW

Designed by: JAE/ANW

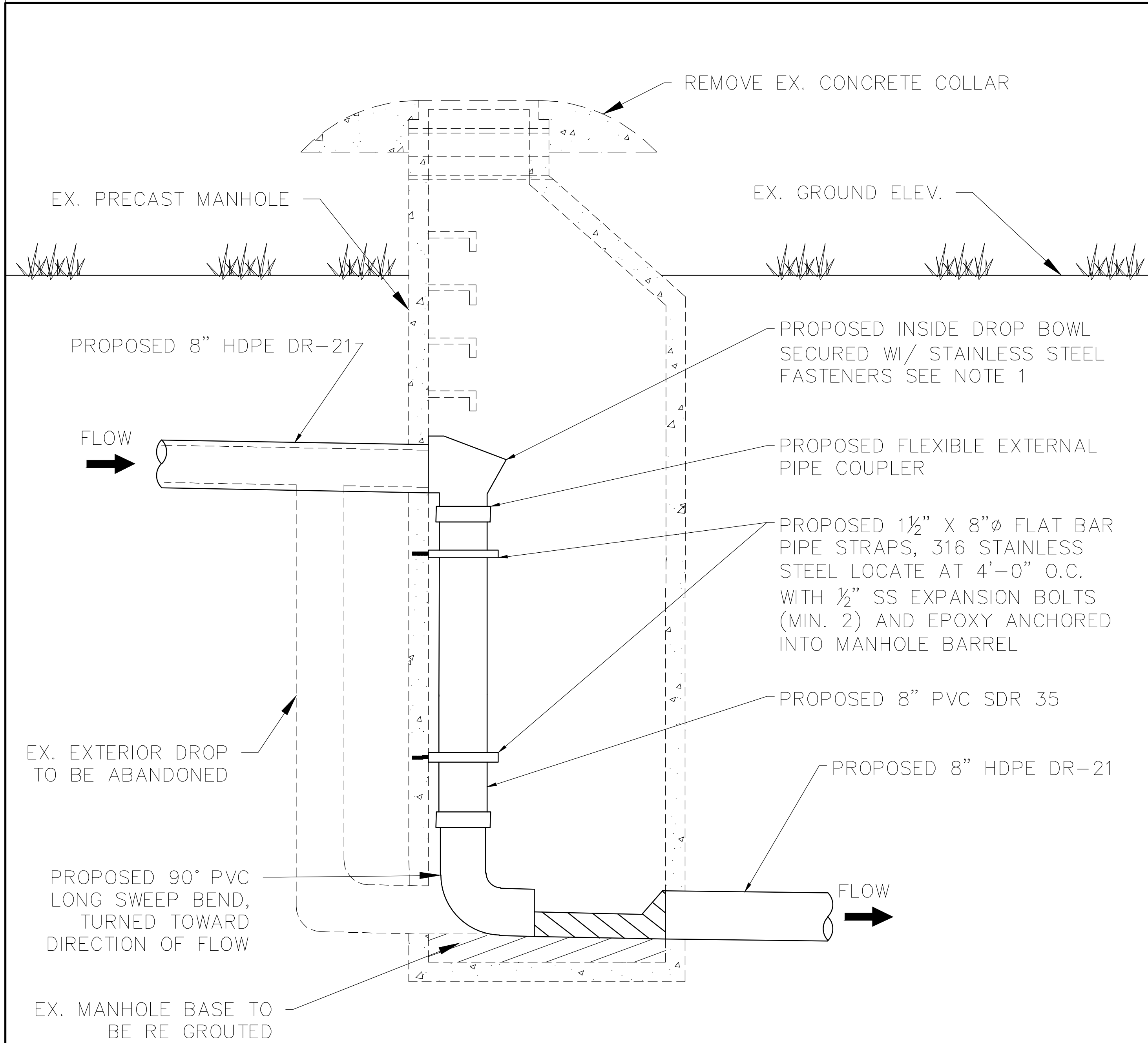
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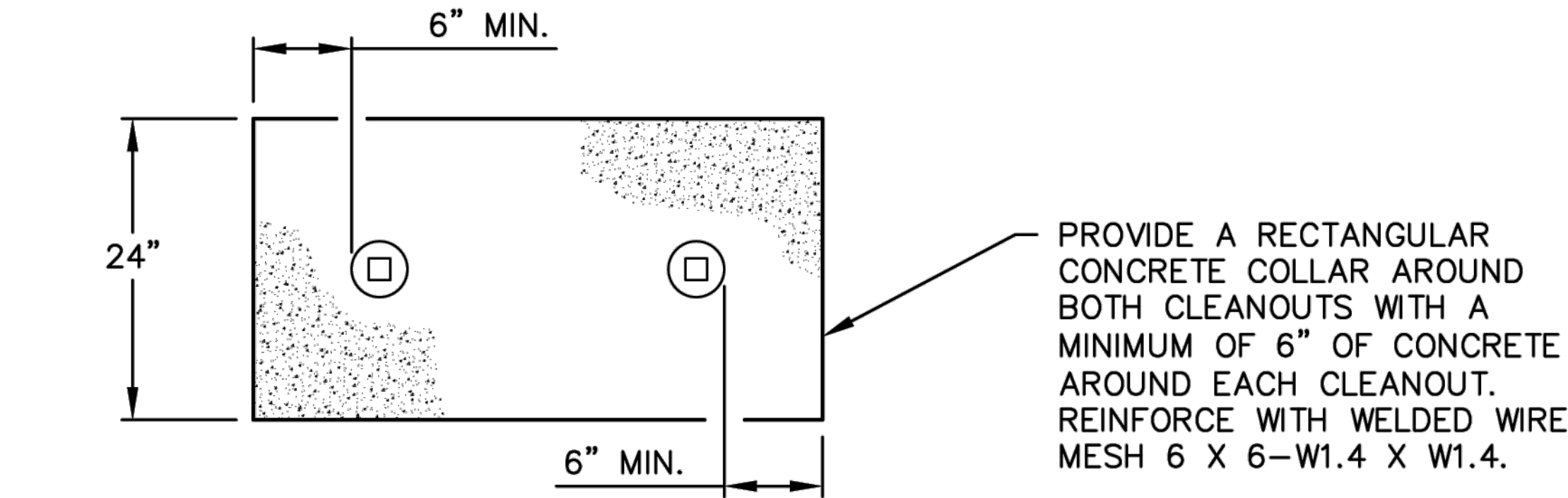
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DETAILS (3)

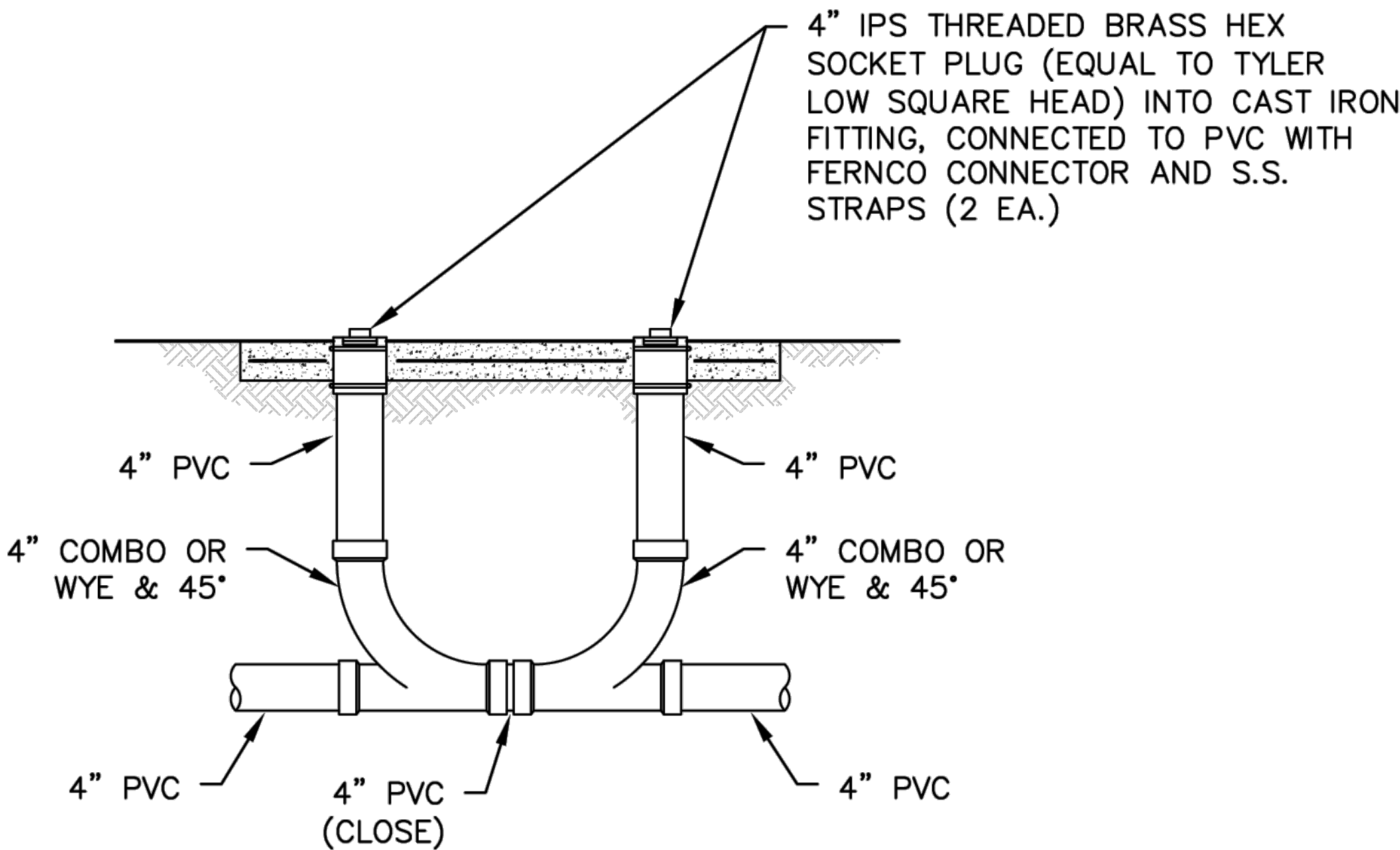
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NOTES:
1. INSIDE DROP BOWL SHALL BE RELINER-DURAN, INC BRAND OR APPROVED EQUAL. USE RELINER-DURAN B8 OR B10 SERIES SIZED OUTLET DROP BOWL OR GREATER. INSTALL CENTER BOWL DIRECTLY UNDER INLET PIPE, ALLOW APPROXIMATELY 1" CLEARANCE BETWEEN PIPE AND BOWL. ATTACH BOWL TO MANHOLE WITH 3/8" DIA. STAINLESS STEEL BOLTS AND EPOXY SET INTO MANHOLE BARREL.



PLAN VIEW



7A SEWER SERVICE LINE CLEANOUTS
NTS

DEPT. OF HEALTH & HUMAN SERVICES
PUBLIC HEALTH SERVICE
INDIAN HEALTH SERVICE
ALBUQUERQUE AREA DSFC

DETAIL NAME:
SEWER SERVICE LINE CLEANOUTS

FILE NAME:
IHS-STD-BLOCKS-2021
DETAIL NO.
7A

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SEWER MAIN IMPROVEMENTS PHASE 1
SOUTHERN UTE INDIAN TRIBE
IGNACIO, COLORADO

Issue Record:
ADVERTISEMENT 06/09/2025

Revisions:

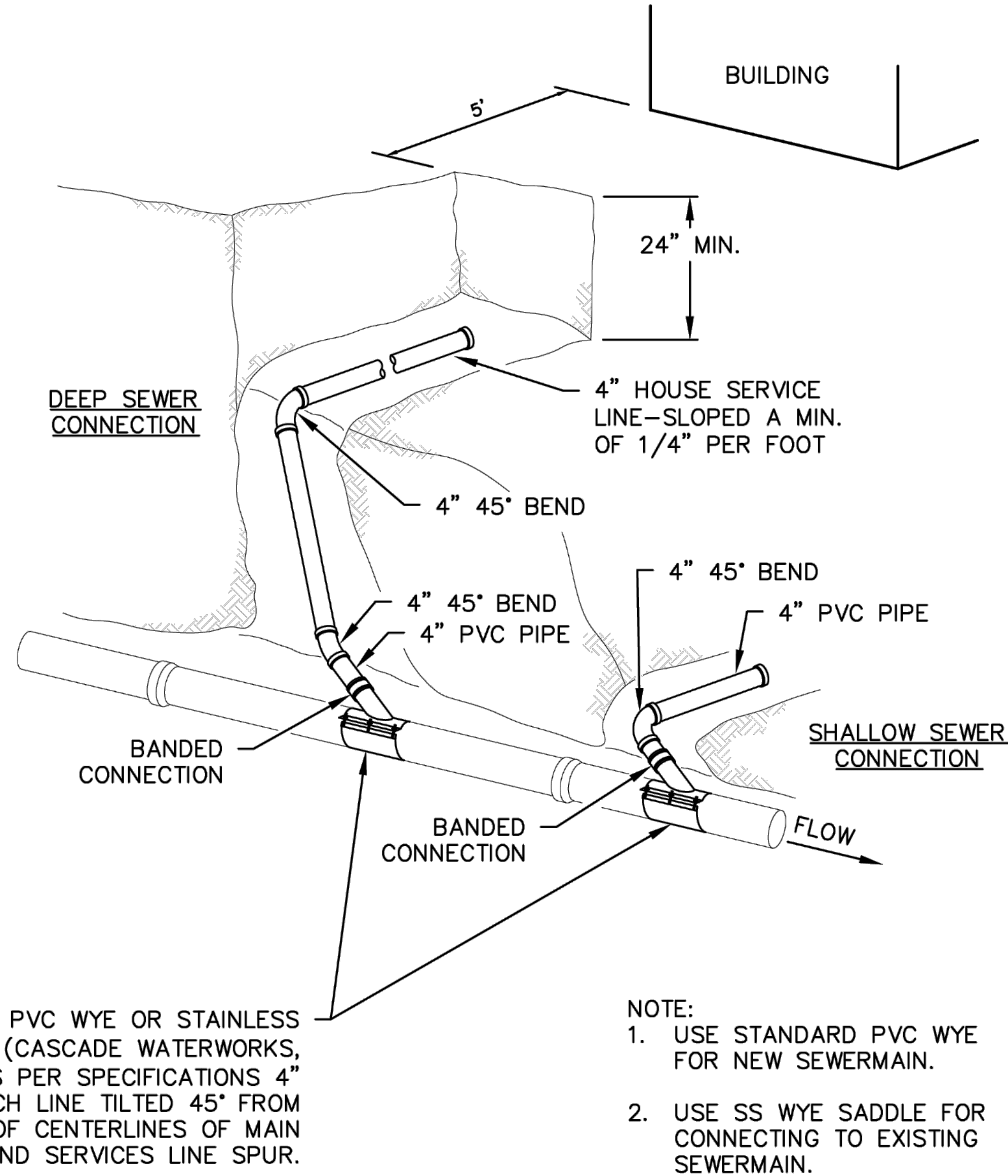
Project Number: 23-186
Drawn By: JAE/ANW
Designed by: JAE/ANW
Checked By: RSH

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C3.04
DETAILS (4)

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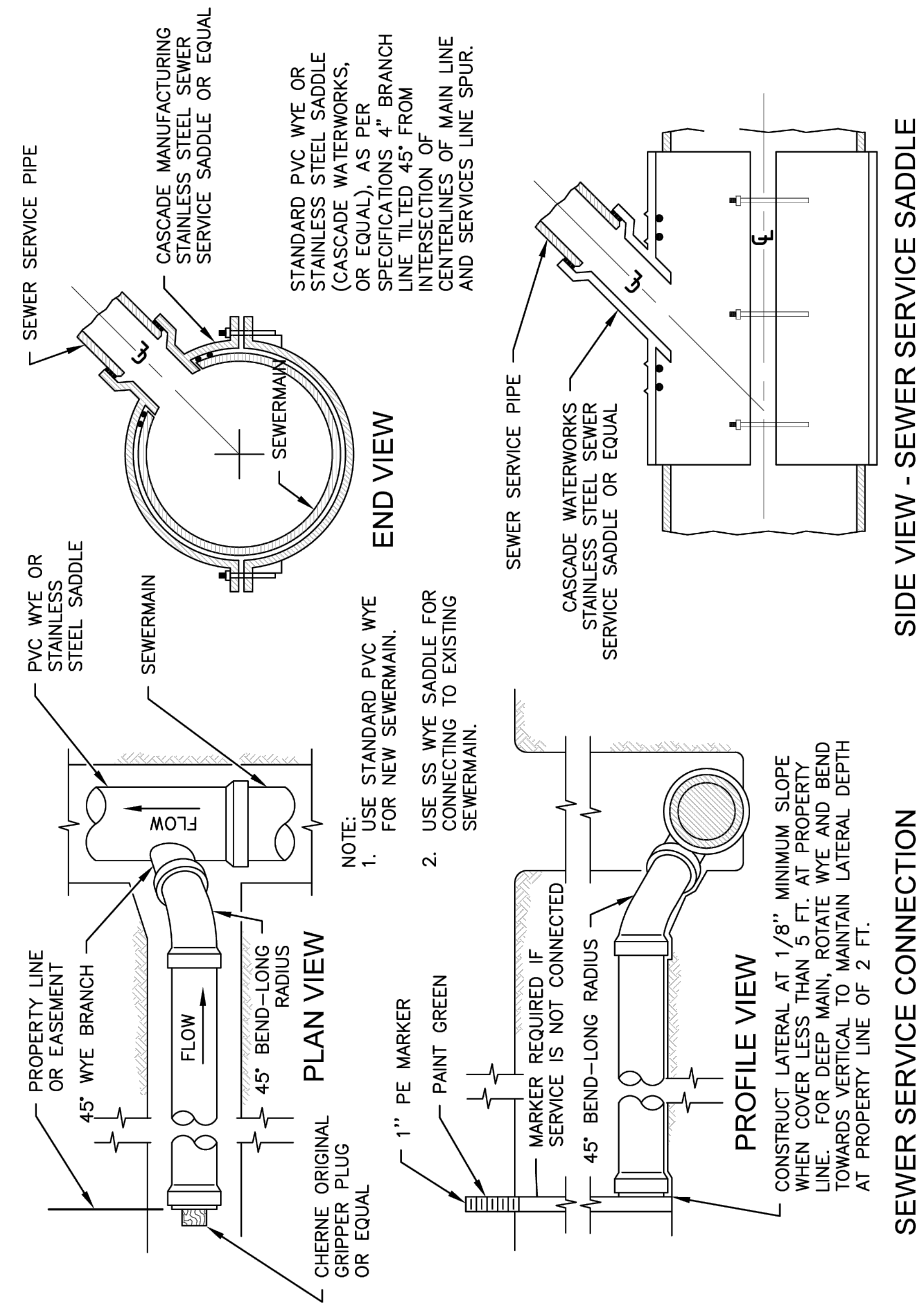
SSMH 07-02 REHABILITATION DETAIL

6K



7B SEWER SERVICE CONNECTION
NTS

DEPT. OF HEALTH & HUMAN SERVICES PUBLIC HEALTH SERVICE INDIAN HEALTH SERVICE ALBUQUERQUE AREA DSFC	DETAIL NAME: SEWER SERVICE CONNECTION	FILE NAME: IHS-STD-BLOCKS-2021
		DETAIL NO. 7B



7C

SEWER SERVICE CONNECTION

NTS

DEPT. OF HEALTH & HUMAN SERVICES PUBLIC HEALTH SERVICE INDIAN HEALTH SERVICE ALBUQUERQUE AREA DSFC	DETAIL NAME: SEWER SERVICE CONNECTION	FILE NAME: IHS-STD-BLOCKS-2021
		DETAIL NO. 7C