

MERIDIAN STORAGE, LLC
MERIDIAN STORAGE

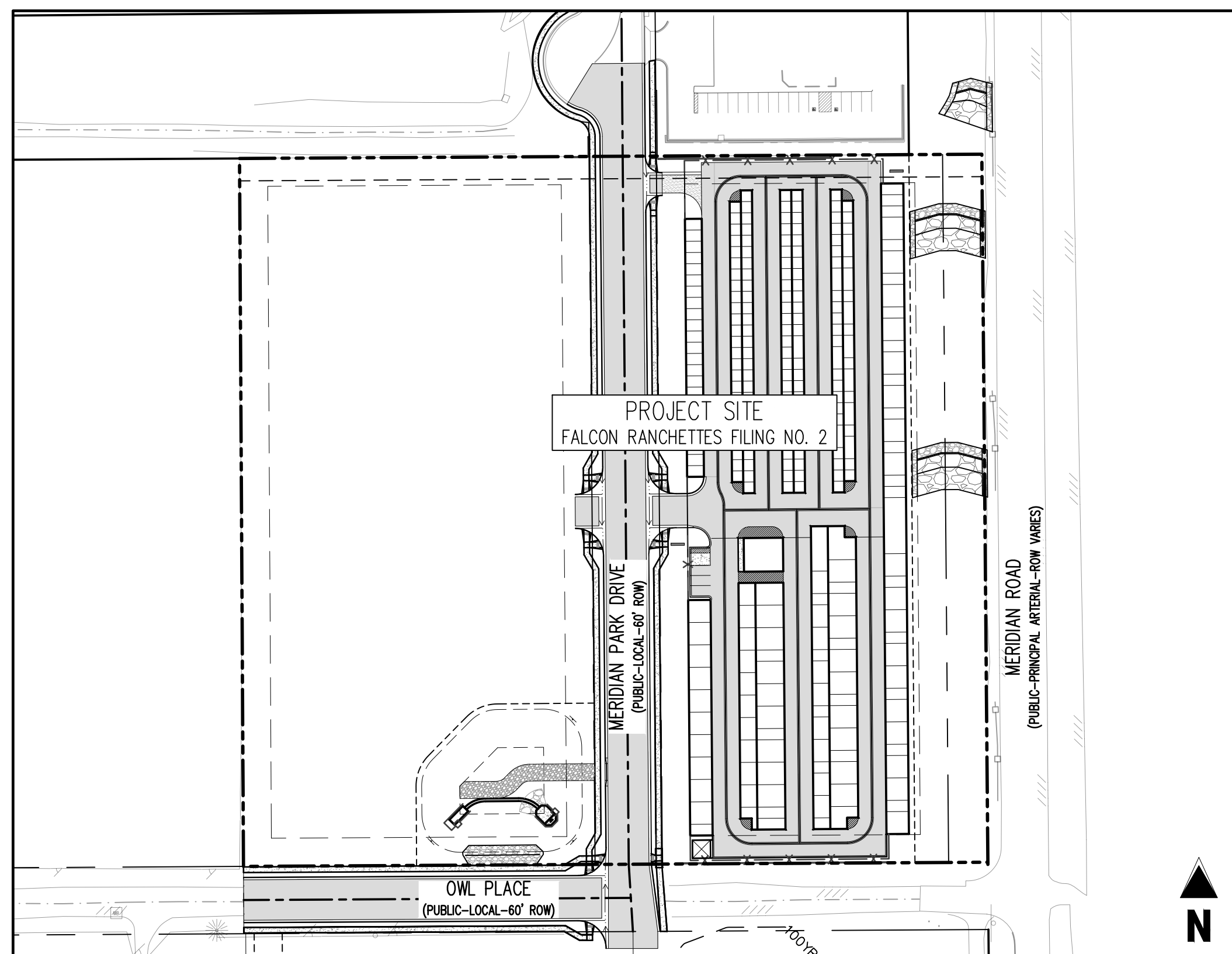
FALCON RANCHETTES FILING NO. 2, NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 12
TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., COUNTY OF EL PASO
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE

CONSTRUCTION DRAWINGS

SF-23-XXX Add PCD File #VR239



VICINITY MAP
0 200 500 1000
SCALE: 1"=1000'



SITE MAP
0 20 50 100
SCALE: 1"=100'

PROJECT CONTACTS	CITY & UTILITY CONTACTS
PROPERTY OWNER MIKE D TEXER 11750 OWL PLACE PEYTON, CO 80831 TELE: (719) 641-9281 CONTACT: MIKE D TEXER EMAIL: MIKE.D.TEXER@GMAIL.COM	WATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WMHD.ORG
APPLICANT GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: CALEBJOHNSON@GALLOWAYUS.COM EMAIL: CALEBJOHNSON@GALLOWAYUS.COM	WASTEWATER WOODMEN HILLS METRO DISTRICT 8046 EASTONVILLE ROAD FALCON, CO 80831 TELE: (719) 495-2500 CONTACT: CODY RITTER EMAIL: CODY@WMHD.ORG
CIVIL ENGINEER GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: BRADY SHYROCK, P.E. EMAIL: BRADYSHYROCK@GALLOWAYUS.COM	ELECTRIC MOUNTAIN VIEW ELECTRIC ASSOCIATION 11140 E. WOODMEN RD., FALCON, CO 80831 TELE: (801) 388-9881 CONTACT: GINA PERRY EMAIL: GINA.P@MVEA.COOP
LANDSCAPE ARCHITECT GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: BRYNHILDEHALSTEN@GALLOWAYUS.COM EMAIL: BRYNHILDEHALSTEN@GALLOWAYUS.COM	NATURAL GAS COLORADO SPRINGS UTILITIES 7710 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150 COLORADO SPRINGS, CO 80947-2150 (719) 688-5573 CONTACT: ARRON CASSIO EMAIL: ACASSIO@CSU.ORG
SURVEYOR GALLOWAY & CO., INC. 1155 KELLY JOHNSON BLVD., SUITE 305 COLORADO SPRINGS, CO 80920 TELE: (719) 900-7220 CONTACT: BILL BROOKS EMAIL: BILLBROOKS@GALLOWAYUS.COM	FIRE FALCON FIRE PROTECTION DISTRICT 7030 OLD MERIDIAN RD., FALCON, CO 80831 TELE: (719) 495-4050 CONTACT: TRENT HARMO EMAIL: THARMO@FALCONFIREPD.ORG

LIST OF ABBREVIATIONS

SH	= SHEET
A	= ANGLE
L	= LENGTH
R	= RADIUS
CB	= CHORD BEARING
C	= CHORD LENGTH
N	= NORTH/NORTING
W	= WEST
E	= EAST/EASTING
S	= SOUTH
DET	= DETAIL
EX	= EXISTING
W/J	= WITH
PC	= POINT OF CURVATURE/PORTLAND CEMENT
WWF	= WELDED WIRE FABRIC
VERT	= VERTICAL
OC	= ON CENTER
FDC	= FIRE DEPARTMENT CONNECTION
CT	= COURT
DR	= DRIVE
TYP	= TYPICAL
REC	= RECEPTION NUMBER
Ø, DIA	= DIAMETER
PT	= POINT OF TANGENCY
MIN	= MINIMUM
MAX	= MAXIMUM
HDPE	= HIGH DENSITY POLYETHYLENE

SHEET LIST TABLE		
SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
1	COVER SHEET	C0.0
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21	CHANNEL PLAN & PROFILE	C6.1
22	DROP STRUCTURE 2 & 3 DETAILS	C7.1
23	DROP STRUCTURE 1 DETAILS	C7.2
24	DROP STRUCTURE GENERAL DETAILS	C7.3
25	CHANNEL SECTIONS	C8.1

LEGAL DESCRIPTION
A PARCEL OF LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOTS 1 & 2, FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK V-2, PAGE 15, OF THE RECORDS OF EL PASO COUNTY, COLORADO.
CONTAINING 8.604 ACRES, MORE OR LESS.

BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

BASIS OF BEARING
ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

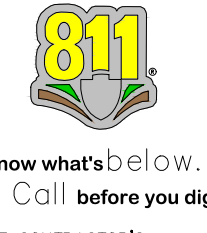
NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

CAUTION - NOTICE TO CONTRACTOR

- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
- WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT. FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH EGM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

JOSHUA PALMER, P.E. COUNTY ENGINEER / EGM ADMINISTRATOR

OWNER'S STATEMENT

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH ALL OF THE REQUIREMENTS SPECIFIED IN THESE DETAILED PLANS AND SPECIFICATIONS.

MIKE D. TEXER

ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMANCE WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

BRADY A. SHYROCK, COLORADO P.E. NO. 0038164

Galloway

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CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX
 STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

GENERAL CONSTRUCTION NOTES

- 1. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK...
2. THE CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO THIS OPERATION...
3. ADDITIONAL EROSION CONTROL STRUCTURES MAY BE REQUIRED AT THE TIME OF CONSTRUCTION...
4. ALL BACKFILL, SUB-BASE AND / OR BASE COURSE (CLASS 6) MATERIAL SHALL BE COMPACTED TO THE SOILS ENGINEERS RECOMMENDATIONS...
5. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE INDICATED...
6. ALL DISTURBED PAVEMENT EDGES SHALL BE CUT TO NEAT LINES...
7. ALL INTERSECTION ACCESSES TO BE CONSTRUCTED WITH A 25 FOOT SIGHT VISIBILITY TRIANGLES AND THERE SHALL BE NO OBSTRUCTIONS GREATER THAN 18" IN THIS AREA...
8. ALL CULVERT AND STORM PIPES SHALL BE SMOOTH INTERIOR CORRUGATED POLYETHYLENE PIPE (HOPE), OR REINFORCED CONCRETE PIPE (RCP)...
9. ASPHALT THICKNESS AND BASE COURSE THICKNESS (COMPACTED FOR ROADS SHALL BE PER DESIGN REPORT BY OWNERS GEOTECHNICAL ENGINEER...
10. TYPE M RIP-RAP WITH 4" OF TYPE II GRANULAR BEDDING AND MIRAFI 180N OR EQUAL MAY BE SUBSTITUTED...
11. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL BE IN COMPLIANCE WITH ANY AND ALL APPLICABLE EL PASO COUNTY STANDARDS...
12. ALL POTABLE WATER MAINS SHALL BE ANWIA C900-SDR18 PVC WITH PUSH-ON SINGLE GASKET TYPE JOINTS...
13. ALL WATER MAIN FITTINGS SHALL BE MADE FROM GRAY-IRON OR DUCTILE IRON AND FURNISHED WITH MECHANICAL JOINT ENDS...
14. ALL WATER LINE BENDS, TEES, BLOW-OFFS AND PLUGS AT DEAD-END MAINS SHALL BE PROTECTED FROM THRUST BY USING CONCRETE THRUST BLOCKS...
15. MAXIMUM DEFLECTION OF 8" OR 12" PVC WATER MAIN JOINTS IS 4 DEGREES...
16. CONTRACTOR IS RESPONSIBLE FOR PROVIDING DETAILED AS-BUILTS OF ALL WATER MAIN, STORM SEWER AND SANITARY SEWER MAIN INSTALLATIONS...
17. SANITARY SEWER PIPE AND FITTINGS: PVC 4" - 8" ASTM D3034, TYPE PSM, SDR 35...

STANDARD NOTES FOR EPC CONSTRUCTION PLAN

- 1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL...
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES...
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN...
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION...
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS...
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD)...
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES...
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER...
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED...
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER EPC STANDARDS...
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS...
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS...
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA...
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW...
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED...

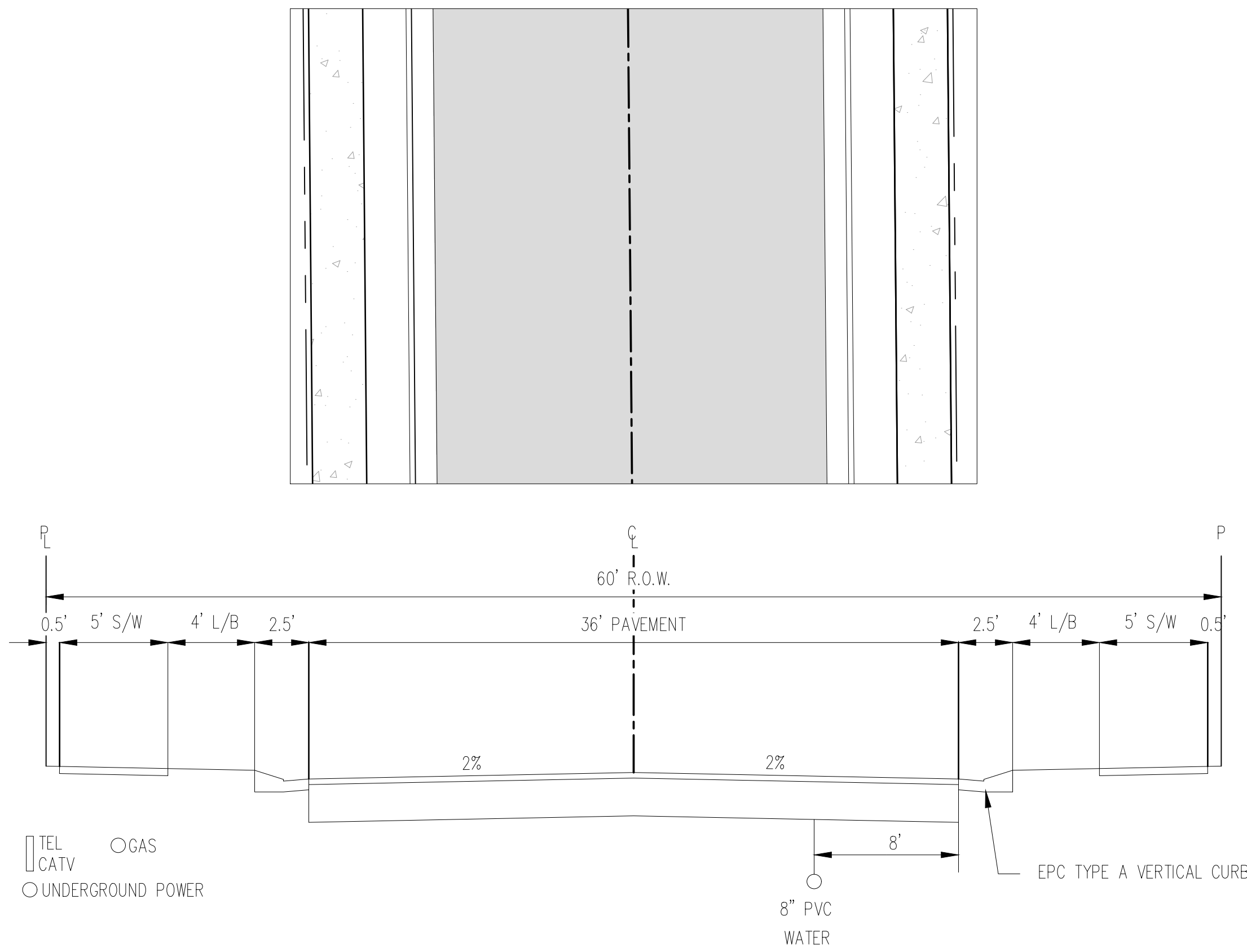
SIGNING AND STRIPING NOTES

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)...
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT...
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT...
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS...
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS...
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR...
7. ALL STREET NAME SIGNS SHALL HAVE 'D' SERIES LETTERS...
8. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75'x 1.75' SQUARE TUBE SIGN POST...
9. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING...
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS...
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS...
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT...
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719) 520-6819...
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW)...

Update Signing and Striping Notes

Signing and Striping Notes:

1. All signs and pavement markings shall be in compliance with the current Manual on Uniform Traffic Control Devices (MUTCD).
2. Removal of existing pavement markings shall be accomplished by a method that does not materially damage the pavement.
3. Any deviation from the striping and signing plan shall be approved by El Paso County Planning and Community Development.
4. All signs shown on the signing and striping plan shall be new signs.
5. Street name and regulatory stop signs shall be on the same post at intersections.
6. All removed signs shall be disposed of in a proper manner by the contractor.
7. All street name signs shall have "D" series letters, with local roadway signs being 4" upper-lower case lettering on 8" blank and non-local roadway signs being 6" lettering, upper-lower case on 12" blank...
8. All traffic signs shall have a minimum High Intensity Prismatic grade sheeting.
9. All local residential street signs shall be mounted on a 1.75' x 1.75' square tube sign post and stub post base.
10. All signs shall be single sheet aluminum with 0.100" minimum thickness.
11. All limit lines/stop lines, crosswalk lines, pavement legends, and arrows shall be a minimum 125 mil thickness preformed thermoplastic pavement markings...
12. Word and symbol markings shall be the narrow type.
13. All longitudinal lines shall be a minimum 15mil thickness epoxy paint.
14. The contractor shall notify El Paso County Planning and Community Development (719) 520-6819 prior to and upon completion of signing and striping.



TYPICAL STREET SECTION - URBAN LOCAL ROADWAY N.T.S.

STREET NAMES

- 1. MERIDIAN PARK DRIVE
2. OWL PLACE

Add design and posted speed note 25/25mph



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CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE, LLC SF-23-XXX STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931

Table with 4 columns: #, Date, Issue / Description, Init. Contains revision record for the drawing.

Project No: MRS01 Drawn By: JDM Checked By: CMWJ Date: PUB

NOTES

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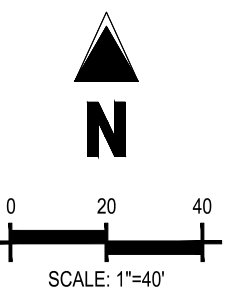
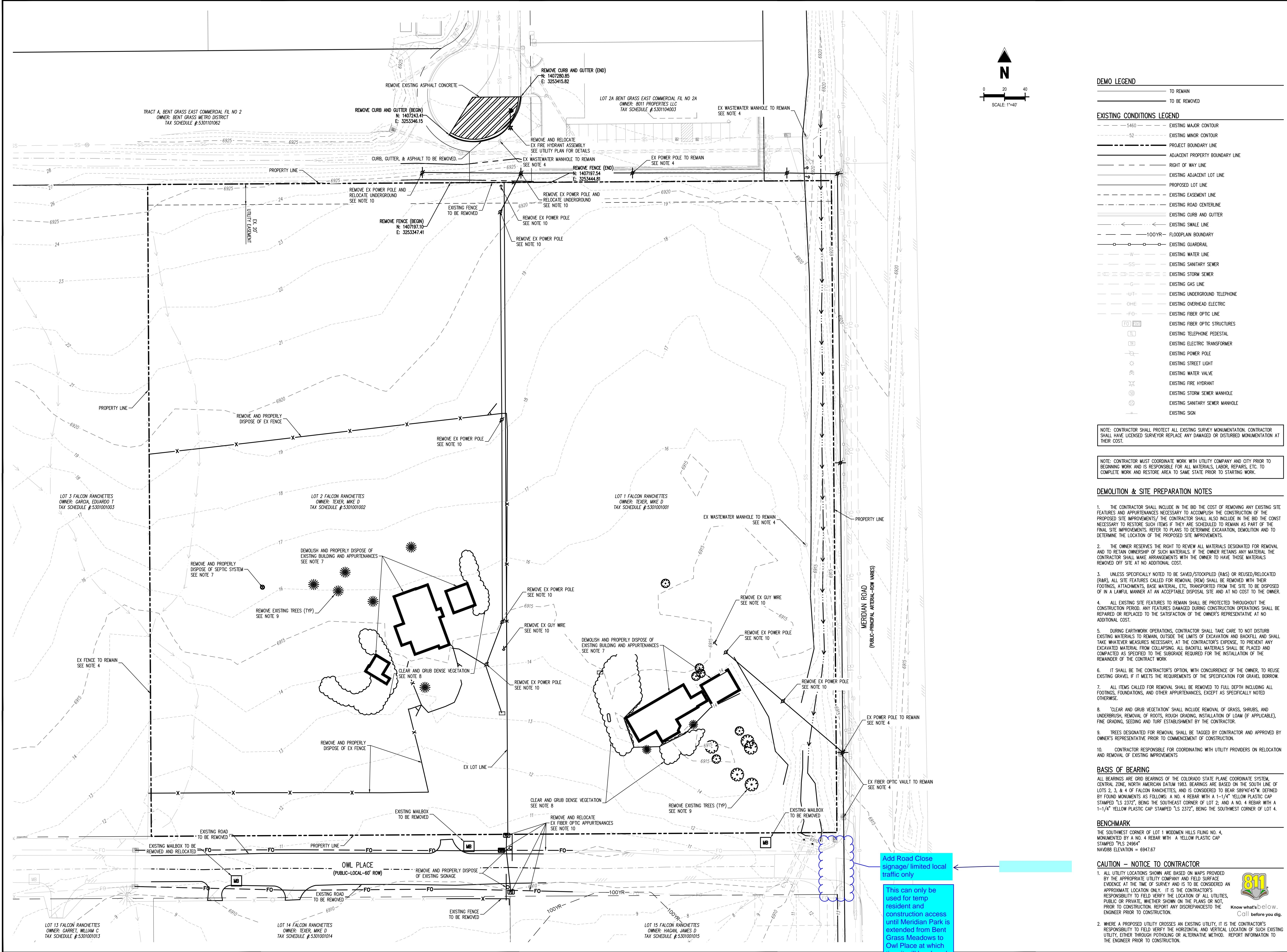
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STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

Date Issue / Description Init.

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Project No: MRS01
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EXISTING CONDITIONS & DEMO PLAN



DEMO LEGEND

	TO REMAIN
	TO BE REMOVED

EXISTING CONDITIONS LEGEND

	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	EXISTING ROAD CENTERLINE
	EXISTING CURB AND GUTTER
	EXISTING SWALE LINE
	100YR FLOODPLAIN BOUNDARY
	EXISTING GUARDRAIL
	EXISTING WATER LINE
	EXISTING SANITARY SEWER
	EXISTING STORM SEWER
	EXISTING GAS LINE
	EXISTING UNDERGROUND TELEPHONE
	EXISTING OVERHEAD ELECTRIC
	EXISTING FIBER OPTIC LINE
	EXISTING FIBER OPTIC STRUCTURES
	EXISTING TELEPHONE PEDESTAL
	EXISTING ELECTRIC TRANSFORMER
	EXISTING POWER POLE
	EXISTING STREET LIGHT
	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
	EXISTING STORM SEWER MANHOLE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING SIGN

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

DEMOLITION & SITE PREPARATION NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THE BID THE COST OF REMOVING ANY EXISTING SITE FEATURES AND APPURTENANCES NECESSARY TO ACCOMPLISH THE CONSTRUCTION OF THE PROPOSED SITE IMPROVEMENTS/ THE CONTRACTOR SHALL ALSO INCLUDE IN THE BID THE COST NECESSARY TO RESTORE SUCH ITEMS IF THEY ARE SCHEDULED TO REMAIN AS PART OF THE FINAL SITE IMPROVEMENTS. REFER TO PLANS TO DETERMINE EXCAVATION, DEMOLITION AND TO DETERMINE THE LOCATION OF THE PROPOSED SITE IMPROVEMENTS.
2. THE OWNER RESERVES THE RIGHT TO REVIEW ALL MATERIALS DESIGNATED FOR REMOVAL AND TO RETAIN OWNERSHIP OF SUCH MATERIALS. IF THE OWNER RETAINS ANY MATERIAL THE CONTRACTOR SHALL MAKE ARRANGEMENTS WITH THE OWNER TO HAVE THOSE MATERIALS REMOVED OFF SITE AT NO ADDITIONAL COST.
3. UNLESS SPECIFICALLY NOTED TO BE SAVED/STOCKPILED (R&S) OR REUSED/RELOCATED (RR&L), ALL SITE FEATURES CALLED FOR REMOVAL (R&M) SHALL BE REMOVED WITH THEIR FOOTINGS, ATTACHMENTS, BASE MATERIAL, ETC. TRANSPORTED FROM THE SITE TO BE DISPOSED OF IN A LAWFUL MANNER AT AN ACCEPTABLE DISPOSAL SITE AND AT NO COST TO THE OWNER.
4. ALL EXISTING SITE FEATURES TO REMAIN SHALL BE PROTECTED THROUGHOUT THE CONSTRUCTION PERIOD. ANY FEATURES DAMAGED DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST.
5. DURING EARTHWORK OPERATIONS, CONTRACTOR SHALL TAKE CARE TO NOT DISTURB EXISTING MATERIALS TO REMAIN, OUTSIDE THE LIMITS OF EXCAVATION AND BACKFILL AND SHALL TAKE WHATEVER MEASURES NECESSARY, AT THE CONTRACTOR'S EXPENSE, TO PREVENT ANY EXCAVATED MATERIAL FROM COLLAPSING. ALL BACKFILL MATERIALS SHALL BE PLACED AND COMPACTED AS SPECIFIED TO THE SUBGRADE REQUIRED FOR THE INSTALLATION OF THE REMAINDER OF THE CONTRACT WORK.
6. IT SHALL BE THE CONTRACTOR'S OPTION, WITH CONCURRENCE OF THE OWNER, TO REUSE EXISTING GRAVEL IF IT MEETS THE REQUIREMENTS OF THE SPECIFICATION FOR GRAVEL BORROW.
7. ALL ITEMS CALLED FOR REMOVAL SHALL BE REMOVED TO FULL DEPTH INCLUDING ALL FOOTINGS, FOUNDATIONS, AND OTHER APPURTENANCES, EXCEPT AS SPECIFICALLY NOTED OTHERWISE.
8. "CLEAR AND GRUB VEGETATION" SHALL INCLUDE REMOVAL OF GRASS, SHRUBS, AND UNDERBRUSH, REMOVAL OF ROOTS, ROUGH GRADING, INSTALLATION OF LOAM (IF APPLICABLE), FINE GRADING, SEEDING AND TURF ESTABLISHMENT BY THE CONTRACTOR.
9. TREES DESIGNATED FOR REMOVAL SHALL BE TAGGED BY CONTRACTOR AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
10. CONTRACTOR RESPONSIBLE FOR COORDINATING WITH UTILITY PROVIDERS ON RELOCATION AND REMOVAL OF EXISTING IMPROVEMENTS.

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR 88940'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964 NAVD88 ELEVATION = 6947.67"

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION. Know what's below. Call before you dig.
2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR A TERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

Add Road Close signage/ limited local traffic only

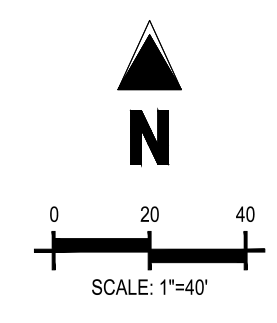
This can only be used for temp resident and construction access until Meridian Park is extended from Bent Grass Meadows to Owl Place at which time it will be closed



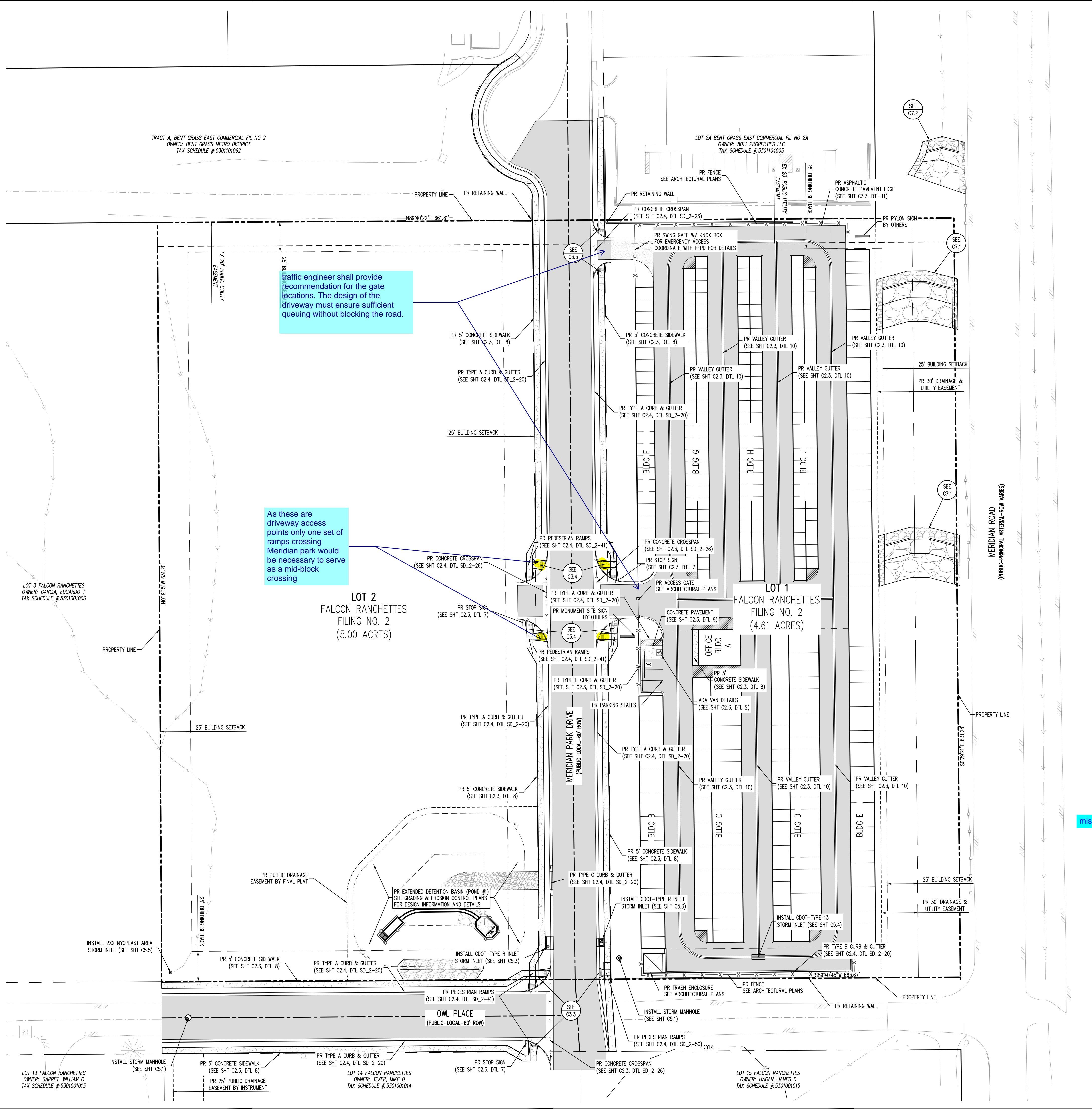
#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

SITE PLAN



- PAVING LEGEND**
- PROPOSED CONCRETE
 - EXISTING CONCRETE
 - PROPOSED ASPHALT PAVING
- SITE LEGEND**
- PROJECT BOUNDARY LINE
 - ADJACENT PROPERTY BOUNDARY LINE
 - RIGHT OF WAY LINE
 - EXISTING ADJACENT LOT LINE
 - PROPOSED LOT LINE
 - EXISTING EASEMENT LINE
 - PROPOSED EASEMENT LINE
 - PROPOSED ROAD CENTERLINE
 - EXISTING ROAD CENTERLINE
 - PROPOSED RIDGE LINE
 - PROPOSED SWALE LINE
 - EXISTING SWALE LINE
 - 100YR FLOODPLAIN BOUNDARY
 - EXISTING FENCE
 - PROPOSED FENCE
 - EXISTING GUARDRAIL
 - PROPOSED CURB AND GUTTER
 - EXISTING CURB AND GUTTER
 - EXISTING EDGE OF ASPHALT
 - PROPOSED SIDEWALK
 - PROPOSED TRAIL
 - PROPOSED GRAVEL PER EGM TABLE D-7
 - RRRAP OUTFALL PADS
 - EXISTING SIGN
 - PROPOSED SIGN
 - PROPOSED BOLLARDS
- UTILITY LEGEND**
- EXISTING WATER LINE
 - PROPOSED WATER LINE
 - EXISTING SANITARY SEWER
 - PROPOSED SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
 - EXISTING GAS LINE
 - PROPOSED GAS LINE
 - EXISTING UNDERGROUND TELEPHONE
 - EXISTING OVERHEAD ELECTRIC
 - EXISTING FIBER OPTIC LINE
 - EXISTING FIBER OPTIC STRUCTURES
 - EXISTING TELEPHONE PEDESTAL
 - EXISTING ELECTRIC TRANSFORMER
 - EXISTING POWER POLE
 - EXISTING STREET LIGHT
 - PROPOSED STREET LIGHT
 - PROPOSED WATER METER
 - EXISTING WATER VALVE
 - PROPOSED WATER VALVE
 - EXISTING FIRE HYDRANT
 - PROPOSED FIRE HYDRANT
 - EXISTING STORM SEWER MANHOLE
 - PROPOSED STORM SEWER MANHOLE
 - EXISTING SANITARY SEWER MANHOLE
 - PROPOSED SANITARY SEWER MANHOLE



traffic engineer shall provide recommendation for the gate locations. The design of the driveway must ensure sufficient queuing without blocking the road.

As these are driveway access points only one set of ramps crossing Meridian park would be necessary to serve as a mid-block crossing

please fix the text referring to a different project.

missing info

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

SOIL PREPARATION AND PAVEMENT DESIGN NOTE

SOIL PREPARATION AND PAVEMENT DESIGN SHALL BE PER RECOMMENDATIONS FROM A GEOTECHNICAL REPORT PREPARED FOR THIS SITE AS FOLLOWS: GEOTECHNICAL ENGINEERING EXPLORATION AND ANALYSIS PROPOSED **ARADA FIRE STATION #9 AT CANDELAS POINT**

GEOTECHNICAL ENGINEER: XX
PROJECT NO: XXXXXXXXXXXXXXXX DATE: XXXXXXXXXXXXXXXX

THE CONTRACTOR MUST FULLY REVIEW THIS REPORT PRIOR TO CONSTRUCTION. INFORMATION IN THE GEOTECHNICAL REPORT SUPERSEDES ANY CONFLICTING INFORMATION CONTAINED IN THE CONSTRUCTION PLANS AND SPECIFICATIONS. REFER TO GENERAL STRUCTURAL NOTES FOR SPECIFIC SOIL PREPARATION AT SITE STRUCTURES.

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W. DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

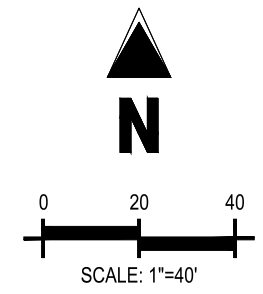
BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

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SITE LEGEND

- PROJECT BOUNDARY LINE
ADJACENT PROPERTY BOUNDARY LINE
RIGHT OF WAY LINE
EXISTING ADJACENT LOT LINE
PROPOSED LOT LINE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED ROAD CENTERLINE
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RIPRAP OUTFALL PADS
EXISTING SIGN
PROPOSED SIGN
PROPOSED BOLLARDS

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

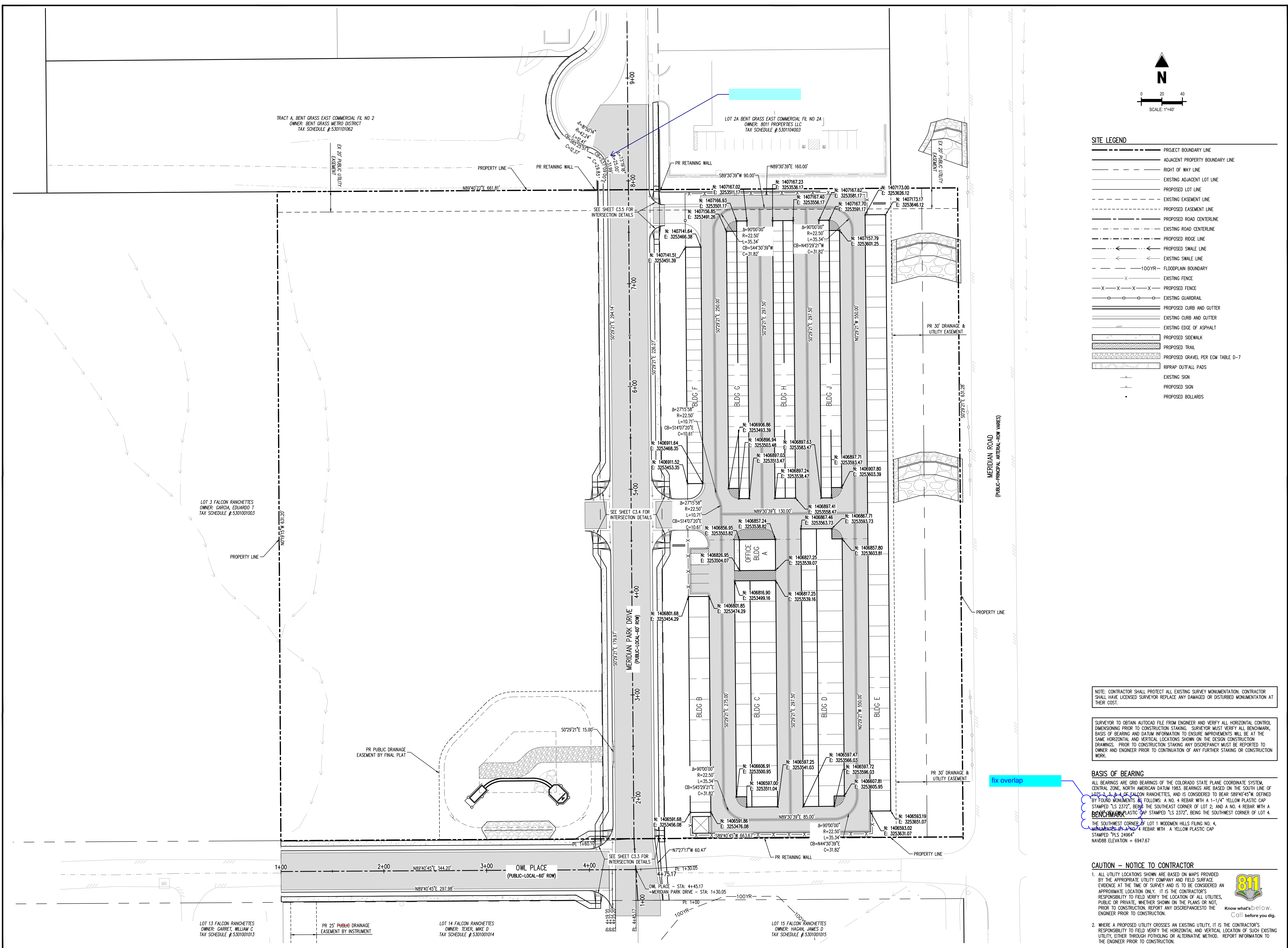
Table with 4 columns: #, Date, Issue / Description, Init. Contains a list of revision entries.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

HORIZONTAL CONTROL PLAN

C2.2

Sheet 5 of 25



NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

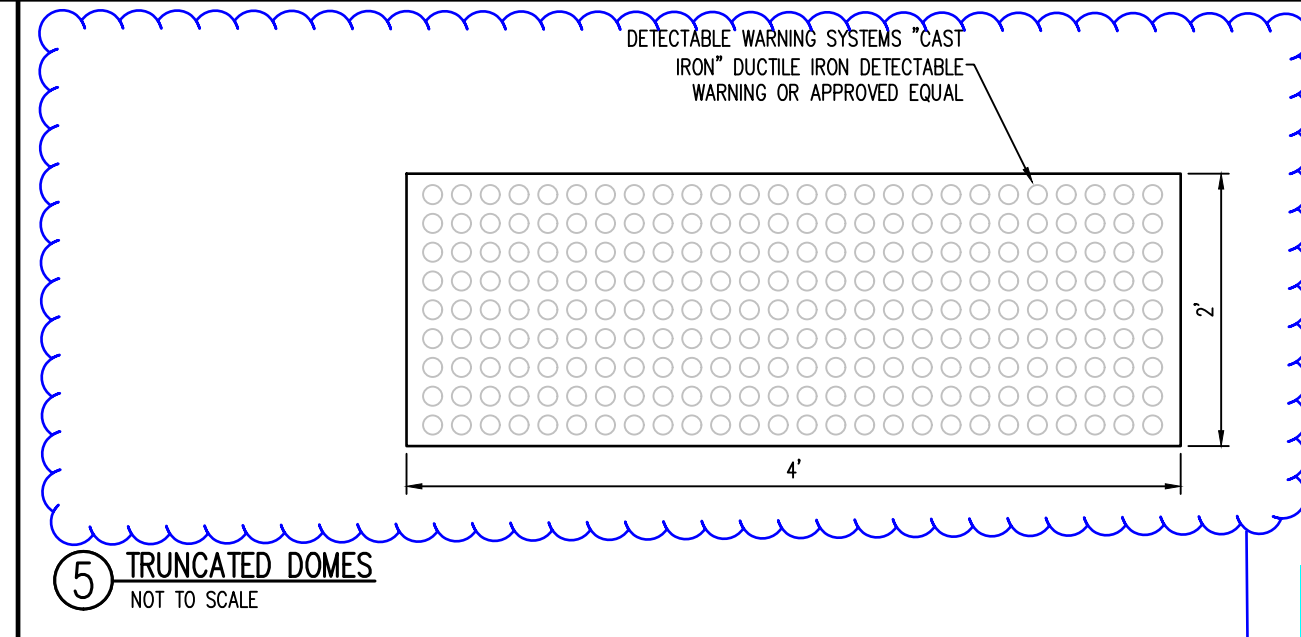
#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

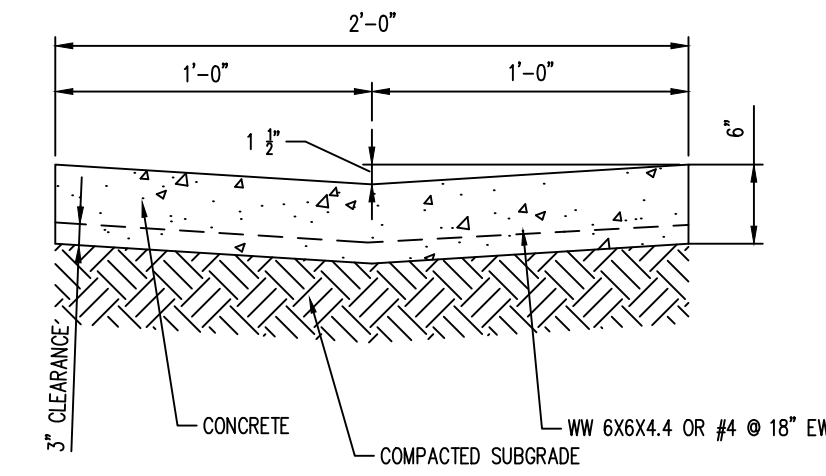
SITE DETAILS

C2.3

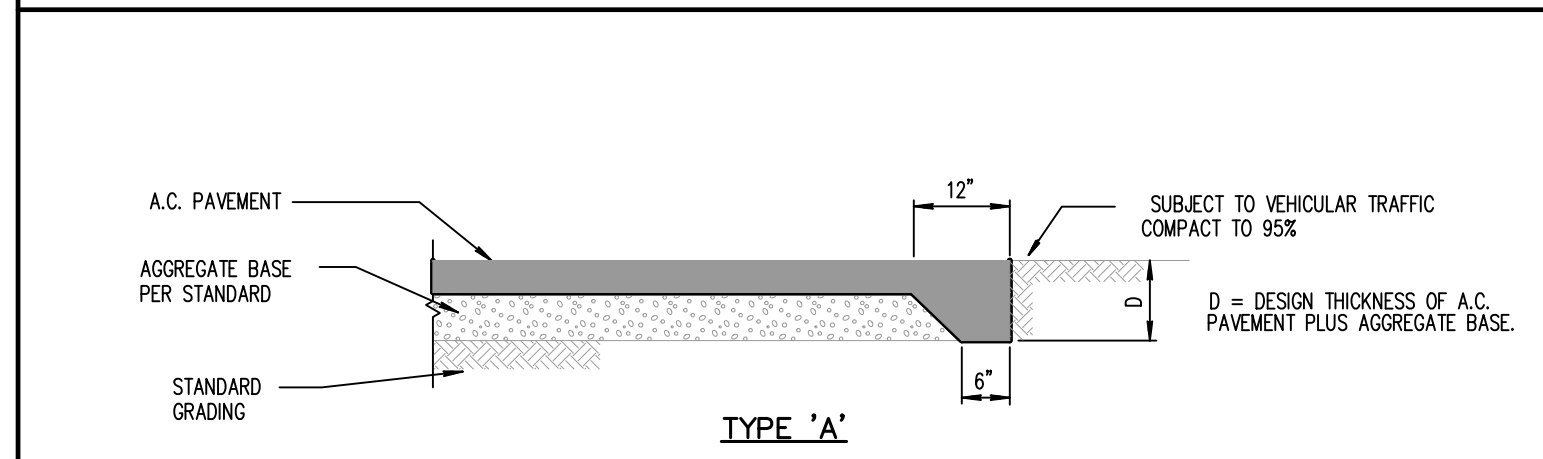
Sheet 6 of 25



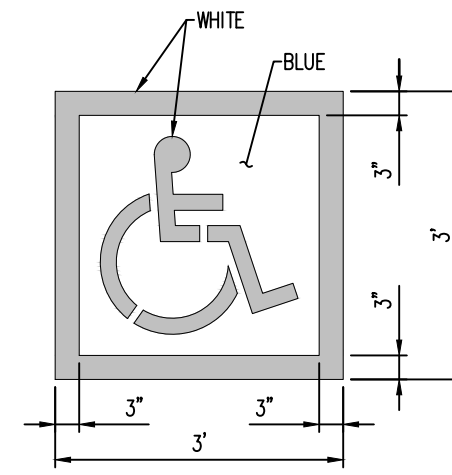
Use County detectable warning detail SD_2-42 from ECM Appendix F



⑩ CONCRETE VALLEY CUTTER
NOT TO SCALE

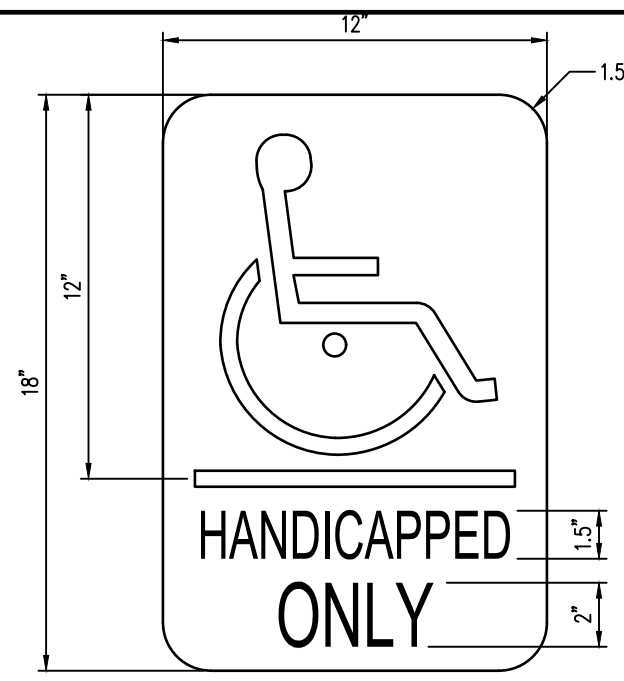


⑪ ASPHALT EDGE DETAIL
NOT TO SCALE



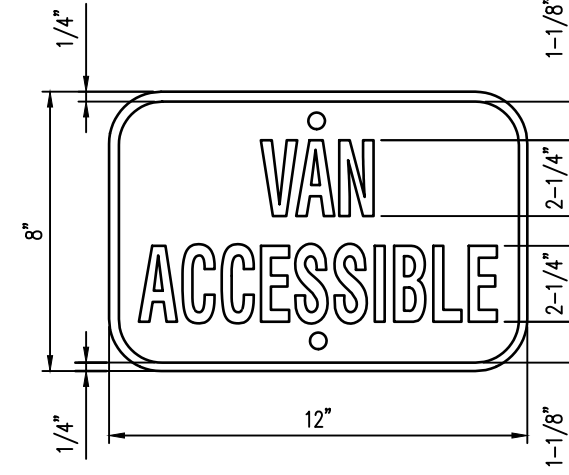
- NOTES:
1. PROVIDE TWO COATS OF PAINT
2. BLUE BACKGROUND WITH WHITE SYMBOL

④ PAINTED ADA PARKING SYMBOL
NOT TO SCALE



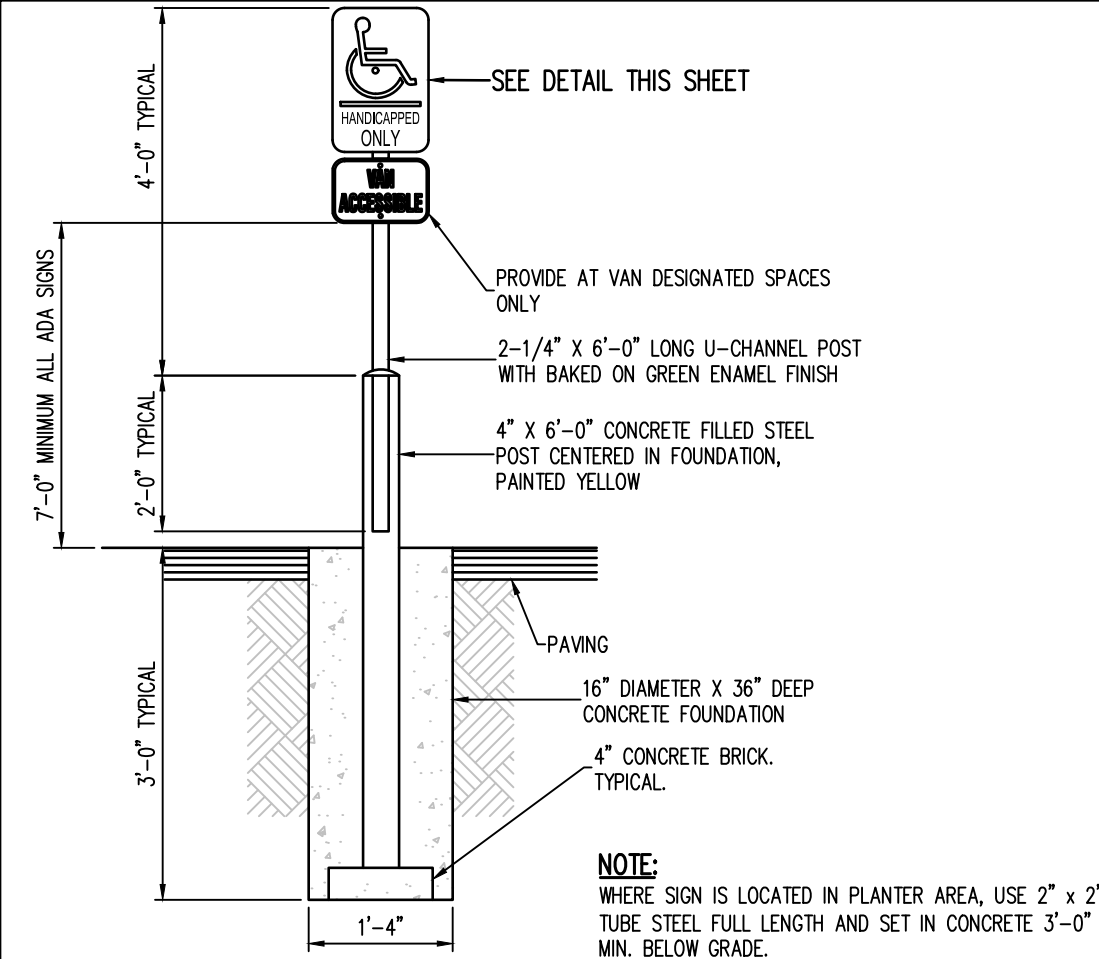
- MATERIAL:
GLOSS ALUMINUM - WHITE BACKGROUND WITH BLUE COPY AND BORDER - SYMBOL HAS BLUE BACKGROUND, WHITE COPY WITH BLACK BORDER 1-1/2" RADIUS CORNERS WHITE 2 MOUNTING HOLES.

③ HANDICAP PARKING SIGN
NOT TO SCALE

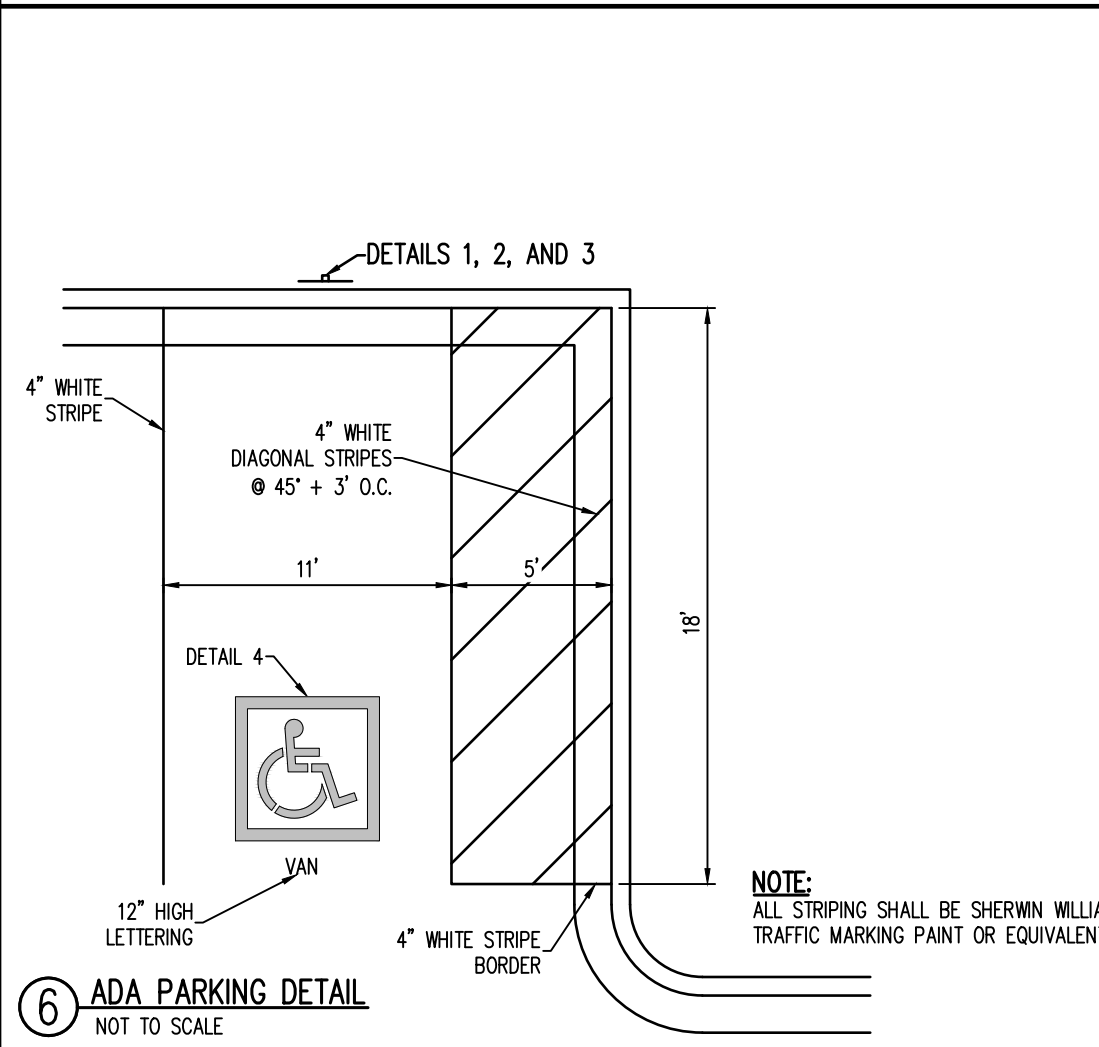


- MATERIAL:
1. 0.060 ALUMINUM - BLUE BACKGROUND WITH WHITE COPY AND BORDER, 1-1/2" RADIUS CORNERS, WHITE, 2 MOUNTING HOLES.
2. SIGN USED WITH CORRESPONDING VAN SPACE.

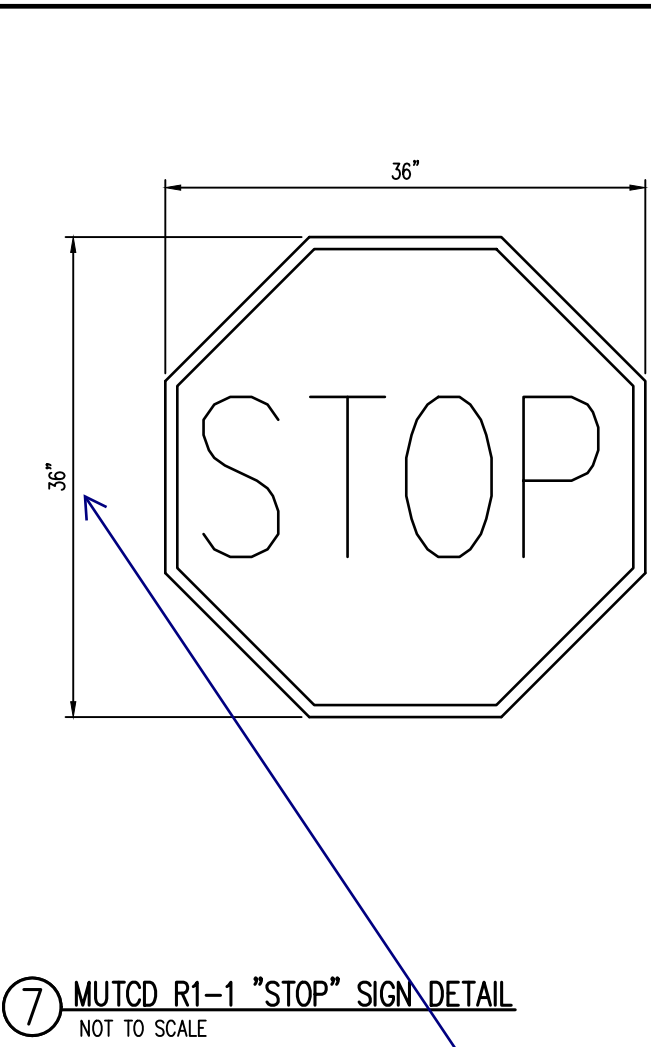
② "VAN ACCESSIBLE" SIGN
NOT TO SCALE



① HANDICAP PARKING SIGN POST
NOT TO SCALE

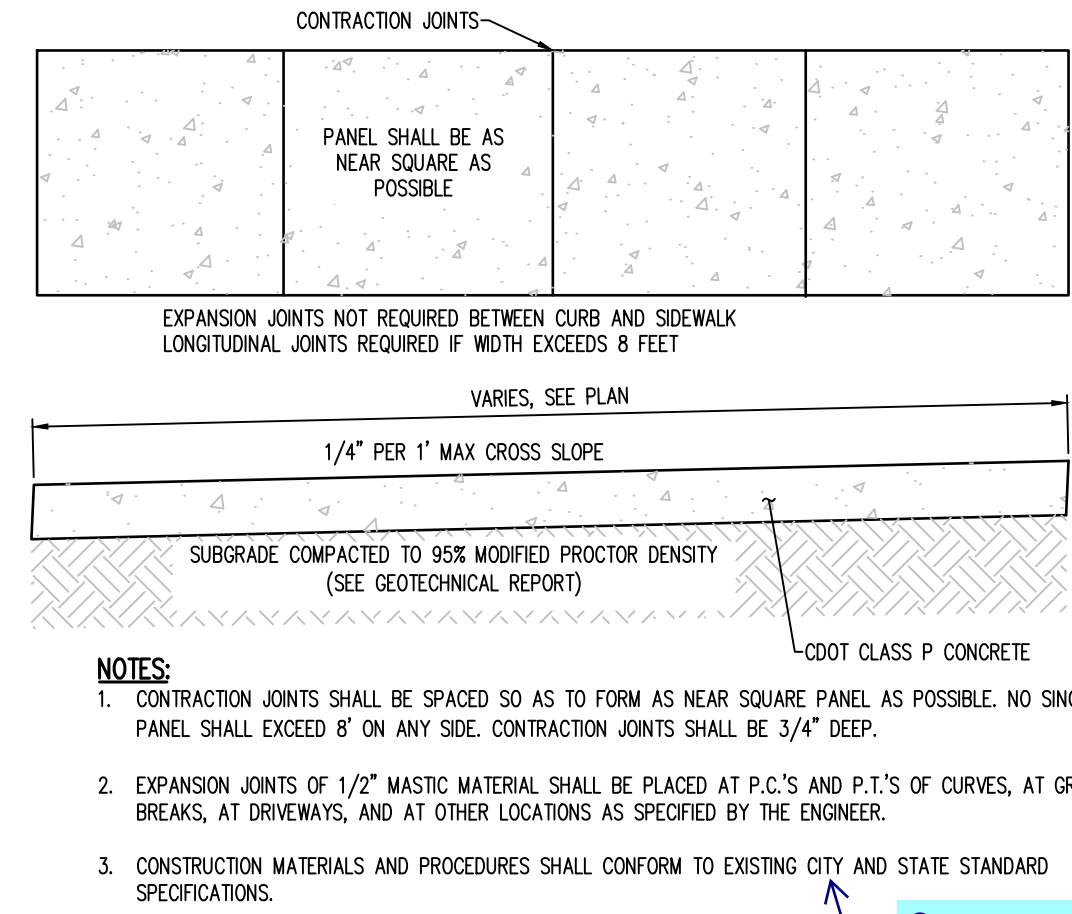


⑥ ADA PARKING DETAIL
NOT TO SCALE

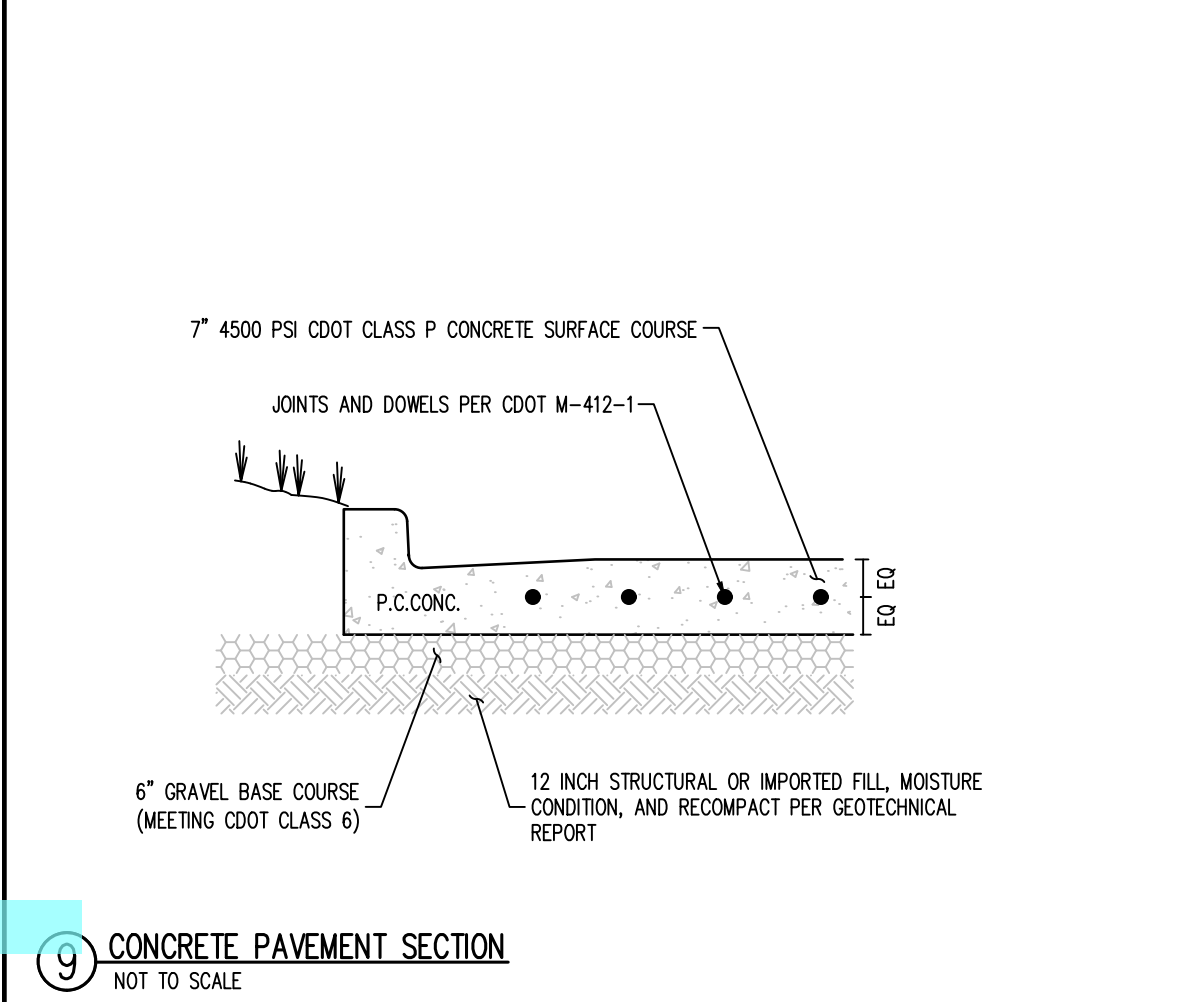


⑦ MUTCD R1-1 "STOP" SIGN DETAIL
NOT TO SCALE

revise to 30"x30"



⑧ CONCRETE SIDEWALK
NOT TO SCALE



⑨ CONCRETE PAVEMENT SECTION
NOT TO SCALE



#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

SITE DETAILS

PEDESTRIAN RAMP NOTES

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CURRENT ENGINEERING CRITERIA MANUAL AND ADA REQUIREMENTS.
- CONTRACTOR TO NOTIFY ENGINEERING DIVISION INSPECTION STAFF 48 HOURS PRIOR TO CONCRETE PLACEMENT.
- PEDESTRIAN RAMP CONSTRUCTION SHALL BE A MINIMUM 4,500 PSI CONCRETE, MINIMUM 4" THICK, NON-COLORED, NON-SCORED, COARSE BROOM FINISH.
- RAMP LOCATION AND LENGTH MAY REQUIRE MODIFICATION TO MAINTAIN THE 12:1 MAXIMUM RUNNING RAMP SLOPE AND 20:1 DETECTABLE WARNING AREA DUE TO STREET INTERSECTION GRADES AND/OR ALIGNMENTS.
- DETECTABLE WARNING AREA SHALL START A MINIMUM OF 6" BUT NOT MORE THAN 8" FROM THE FLOWLINE OF THE CURB AT ANY POINT.
- DETECTABLE WARNING AREA SHALL BE PREFABRICATED, REDDISH INTRINSICALLY COLORED, TRUNCATED-DOME, PAVERS. THERMOPLASTIC TRUNCATED DOMES WILL NOT BE ACCEPTED.
- THE DETECTABLE WARNING AREA SHALL BE 24" IN LENGTH AND THE FULL WIDTH OF THE RAMP.
- RAMP WIDTH REQUIRED IS SAME AS APPROACHING SIDEWALK; 4' MINIMUM.
- ALL RAMP SHALL BE PERPENDICULAR TO TRAFFIC WITH THE EXCEPTION OF MID-BLOCK OR TERMINAL RAMP WHICH MAY BE PARALLEL. SUBJECT TO APPROVAL.
- AVOID PLACING DRAINAGE STRUCTURES, TRAFFIC SIGNAL/SIGNAGE, UTILITIES/ANCHOR BOXES, OR OTHER OBSTRUCTIONS WITHIN PROPOSED RAMP AREAS.

GENERAL NOTES

- WHERE THE 1'-0" FLARED SIDING OF A PERPENDICULAR CURB RAMP IS (ARE) CONTIGUOUS WITH A PEDESTRIAN OR HARD SURFACE AREA, THE MAXIMUM FLARE SLOPE SHALL NOT EXCEED 10:1.
- PEDESTRIAN WALKWAY AND/OR LOCATION OF EXISTING OR FUTURE PEDESTRIAN RAMP ON OPPOSITE CORNERS SHALL BE REVIEWED BEFORE CONSTRUCTING NEW RAMP.
- AT MARKED PEDESTRIAN CROSSINGS, THE BOTTOM OF THE RAMP, EXCLUSIVE OF THE FLARE SIDING, SHALL BE TOTALLY CONTAINED WITHIN THE MARKINGS.

PEDESTRIAN RAMP
 Standard Drawing
 DATE APPROVED: 7/9/09
 DEPARTMENT OF TRANSPORTATION: André P. Brackin
 REVISION DATE: 12/8/15
 FILE NAME: SD_2-41

Please update to the most current County PED ramp and curb/gutter details dated 6/23/20

TYPICAL CROSS PAN LAYOUT DETAIL
 Standard Drawing
 DATE APPROVED: 8/11/11
 DEPARTMENT OF TRANSPORTATION: André P. Brackin
 REVISION DATE: 12/8/15
 FILE NAME: SD_2-26

TYPICAL CURB AND GUTTER DETAILS
 Standard Drawing
 DATE APPROVED: 8/11/11
 DEPARTMENT OF TRANSPORTATION: André P. Brackin
 REVISION DATE: 12/8/15
 FILE NAME: SD_2-20

PARALLEL PEDESTRIAN RAMP DETAIL
 Standard Drawing
 DATE APPROVED: 8/11/11
 DEPARTMENT OF TRANSPORTATION: André P. Brackin
 REVISION DATE: 12/8/15
 FILE NAME: SD_2-50

PEDESTRIAN INTERSECTION RAMP DETAIL
 Standard Drawing
 DATE APPROVED: 9/16/10
 DEPARTMENT OF TRANSPORTATION: André P. Brackin
 REVISION DATE: 11/10/04
 FILE NAME: SD_2-40

SITE LEGEND

- PROJECT BOUNDARY LINE
ADJACENT PROPERTY BOUNDARY LINE
RIGHT OF WAY LINE
EXISTING ADJACENT LOT LINE
PROPOSED LOT LINE
EXISTING EASEMENT LINE
PROPOSED EASEMENT LINE
PROPOSED ROAD CENTERLINE
EXISTING ROAD CENTERLINE
PROPOSED RIDGE LINE
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PROPOSED TRAIL
PROPOSED GRAVEL PER EOM TABLE D-7
RIPRAP OUTFALL PADS
EXISTING SIGN
PROPOSED SIGN
PROPOSED BOLLARDS

UTILITY LEGEND

- EXISTING WATER LINE
PROPOSED WATER LINE
EXISTING SANITARY SEWER
PROPOSED SANITARY SEWER
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PROPOSED STORM SEWER
EXISTING GAS LINE
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PROPOSED FIRE HYDRANT
EXISTING STORM SEWER MANHOLE
PROPOSED STORM SEWER MANHOLE
EXISTING SANITARY SEWER MANHOLE
PROPOSED SANITARY SEWER MANHOLE

NOTES

- A PEDESTRIAN RAMP, SEE DETAILS (EPC SD_2-40 & SD_2-41)
B PROPOSED 6' CONCRETE CROSS PAN, SEE DETAIL (EPC SD_2-28)
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NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.
CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.
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PAVING LEGEND

- PROPOSED CONCRETE
EXISTING CONCRETE
PROPOSED ASPHALT PAVING

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BENCHMARK

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CAUTION - NOTICE TO CONTRACTOR

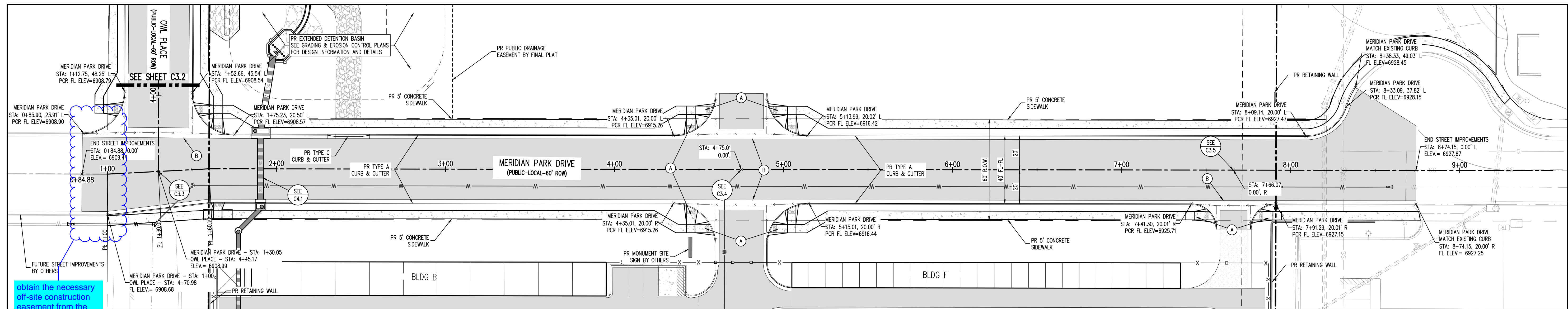
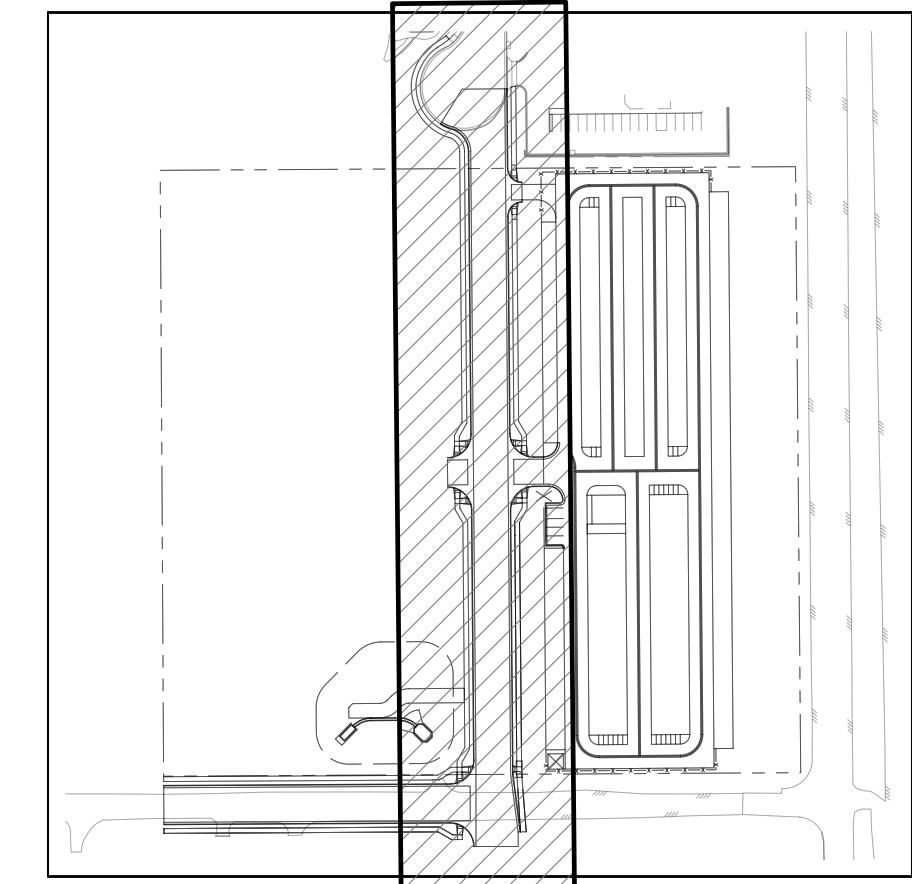
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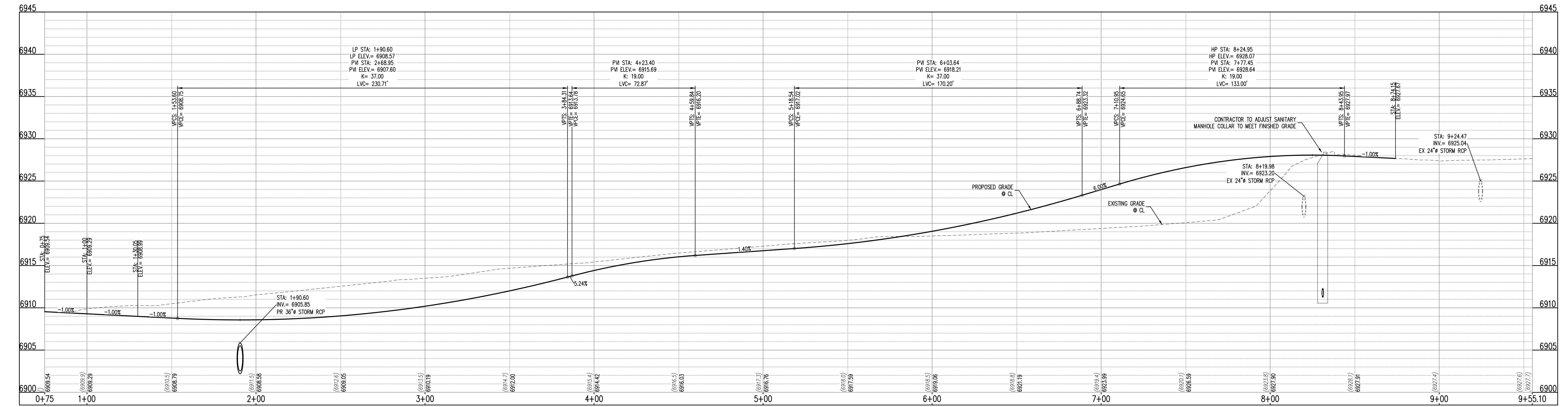
Know what's below. Call before you dig.



SCALE: 1"=30'



MERIDIAN PARK DRIVE - PUBLIC 60' R.O.W. 25 MPH DESIGN SPEED (LOCAL) SCALE: 1"=30'



MERIDIAN DRIVE PARK (STA: 0+75 - 9+55.10) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



1155 Kelly Johnson Blvd., Suite 305 Colorado Springs, CO 80920 719.900.7220 GallowayUS.com

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CONSTRUCTION DRAWINGS MERIDIAN STORAGE MERIDIAN STORAGE, LLC SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE EL PASO COUNTY, FALCON, CO 80931

Table with 4 columns: #, Date, Issue / Description, Init. (Empty rows)

Project No: MRS01 Drawn By: JDM Checked By: CMWJ Date: PUB

MERIDIAN PARK DRIVE

C3.1

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

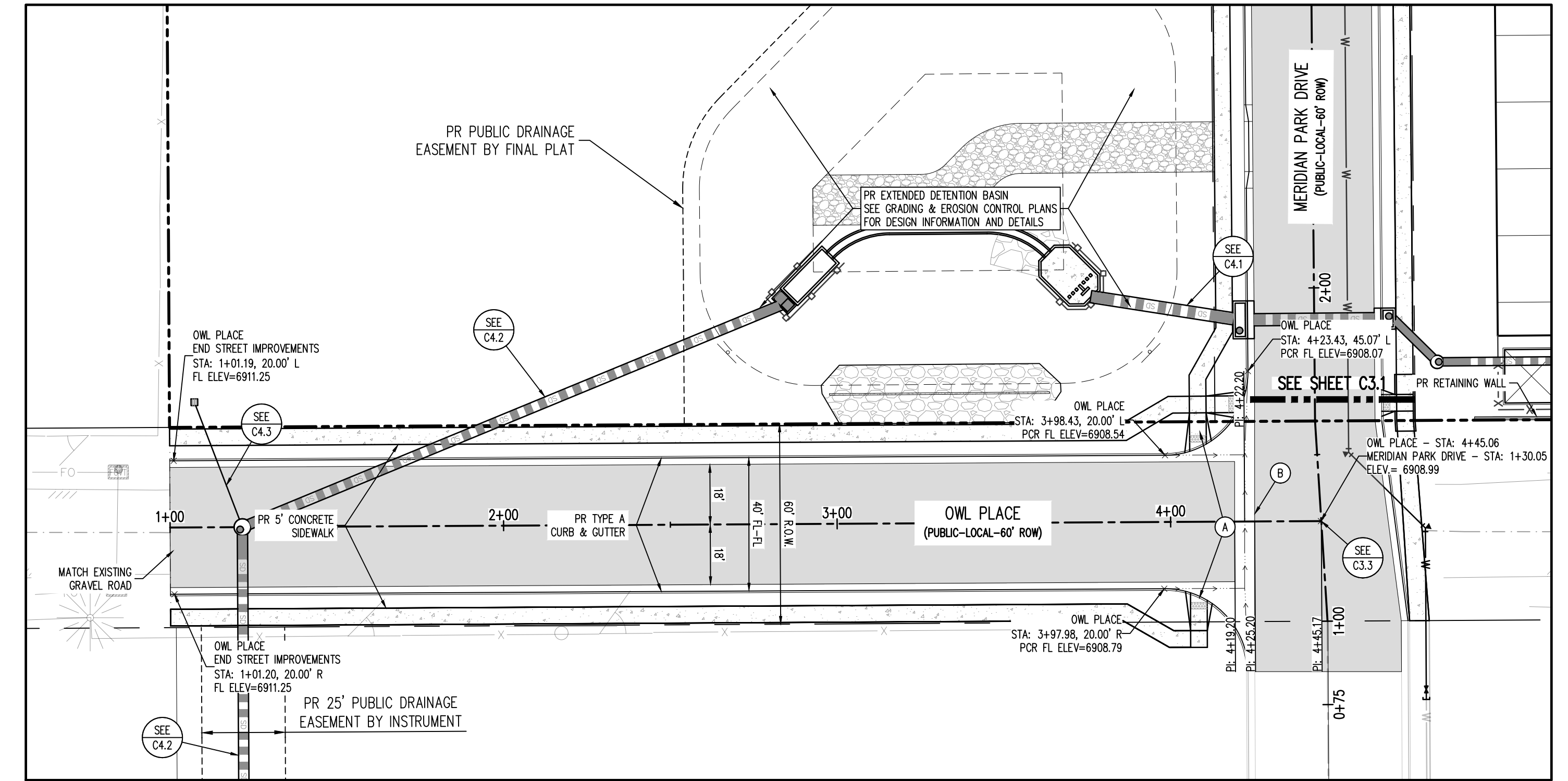
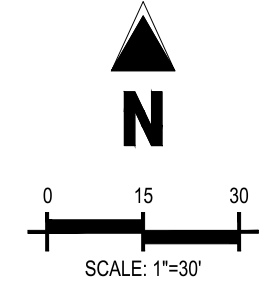
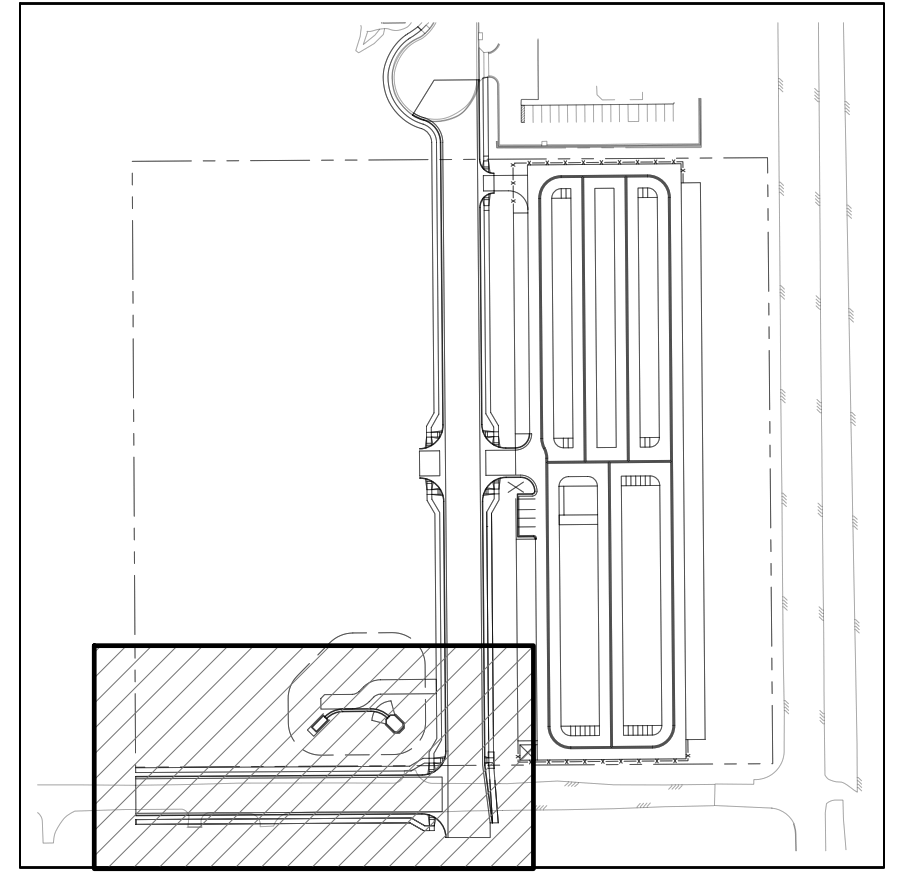
#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

OWL PLACE

C3.2

Sheet 9 of 25



**OWL PLACE - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)**
SCALE: 1"=30'

UTILITY LEGEND

-	EXISTING WATER LINE
-W-	PROPOSED WATER LINE
-SS-	EXISTING SANITARY SEWER
-SS-	PROPOSED SANITARY SEWER
-S-	EXISTING STORM SEWER
-S-	PROPOSED STORM SEWER
-G-	EXISTING GAS LINE
-G-	PROPOSED GAS LINE
-UT-	EXISTING UNDERGROUND TELEPHONE
-OH-E-	EXISTING OVERHEAD ELECTRIC
-FO-	EXISTING FIBER OPTIC LINE
(TO) (S)	EXISTING FIBER OPTIC STRUCTURES
(T)	EXISTING TELEPHONE PEDESTAL
(TR)	EXISTING ELECTRIC TRANSFORMER
(P)	EXISTING POWER POLE
(S)	EXISTING STREET LIGHT
(S)	PROPOSED STREET LIGHT
(M)	PROPOSED WATER METER
(V)	EXISTING WATER VALVE
(V)	PROPOSED WATER VALVE
(F)	EXISTING FIRE HYDRANT
(F)	PROPOSED FIRE HYDRANT
(S)	EXISTING STORM SEWER MANHOLE
(S)	PROPOSED STORM SEWER MANHOLE
(S)	EXISTING SANITARY SEWER MANHOLE
(S)	PROPOSED SANITARY SEWER MANHOLE

SITE LEGEND

-	PROJECT BOUNDARY LINE
-	ADJACENT PROPERTY BOUNDARY LINE
-	RIGHT OF WAY LINE
-	EXISTING ADJACENT LOT LINE
-	PROPOSED LOT LINE
-	EXISTING EASEMENT LINE
-	PROPOSED EASEMENT LINE
-	PROPOSED ROAD CENTERLINE
-	EXISTING ROAD CENTERLINE
-	PROPOSED RIDGE LINE
-	PROPOSED SWALE LINE
-	EXISTING SWALE LINE
-	FLOODPLAIN BOUNDARY
X X X X	EXISTING FENCE
X X X X	PROPOSED FENCE
-O-O-	EXISTING GUARDRAIL
-	PROPOSED CURB AND GUTTER
-	EXISTING CURB AND GUTTER
-	EXISTING EDGE OF ASPHALT
-	PROPOSED SIDEWALK
-	PROPOSED TRAIL
-	PROPOSED GRAVEL PER EDM TABLE D-7
-	RIPRAP OUTFALL PADS
(S)	EXISTING SIGN
(S)	PROPOSED SIGN
(B)	PROPOSED BOLLARDS

PAVING LEGEND

(Hatched pattern)	PROPOSED CONCRETE
(Solid grey)	EXISTING CONCRETE
(Solid dark grey)	PROPOSED ASPHALT PAVING

NOTES

(A) PEDESTRIAN RAMP, SEE DETAILS (EPC SD_2-40 & SD_2-41)

(B) PROPOSED 6" CONCRETE CROSS PAN, SEE DETAIL (EPC SD_2-26)

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON FRANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK

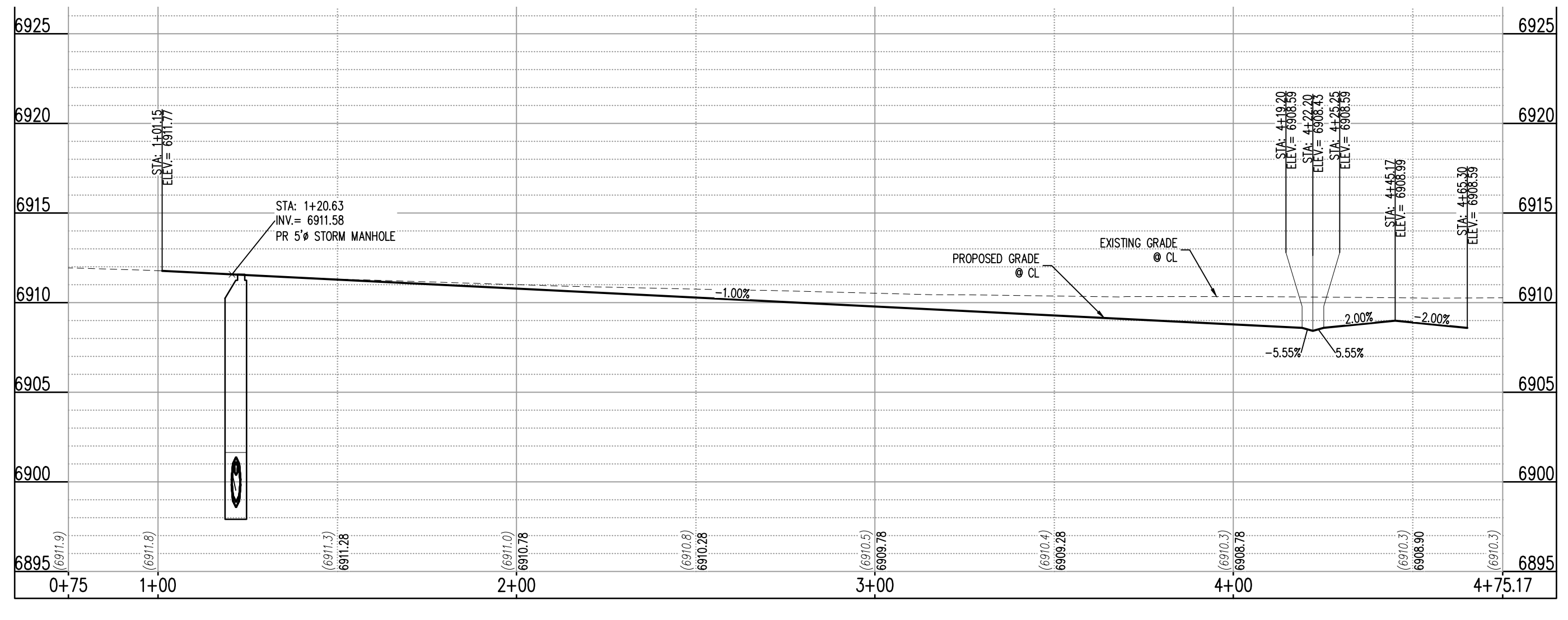
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "T.S. 24964" NAVD88 ELEVATION = 6947.67

CAUTION - NOTICE TO CONTRACTOR

1. ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.

2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-Holing OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

811 Know what's below. Call before you dig.



OWL PLACE (STA: 0+75 - 4+75.17)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

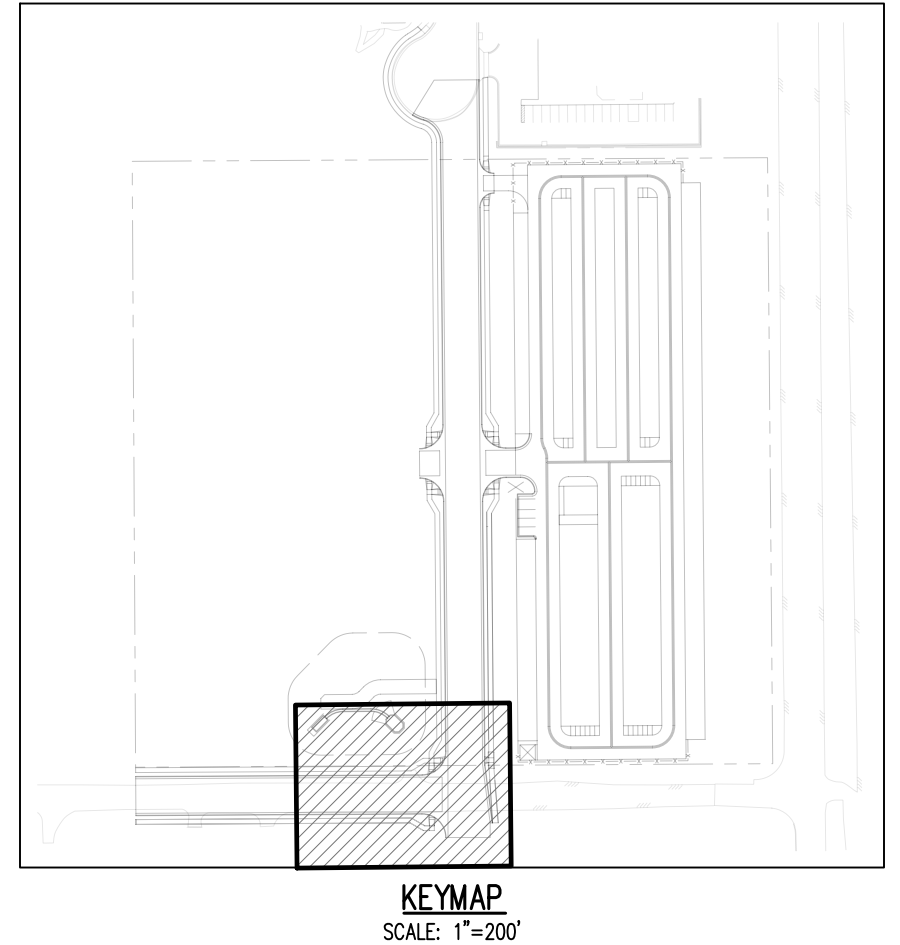
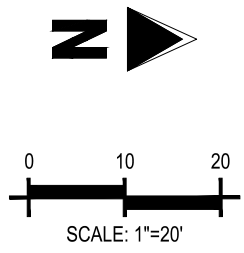
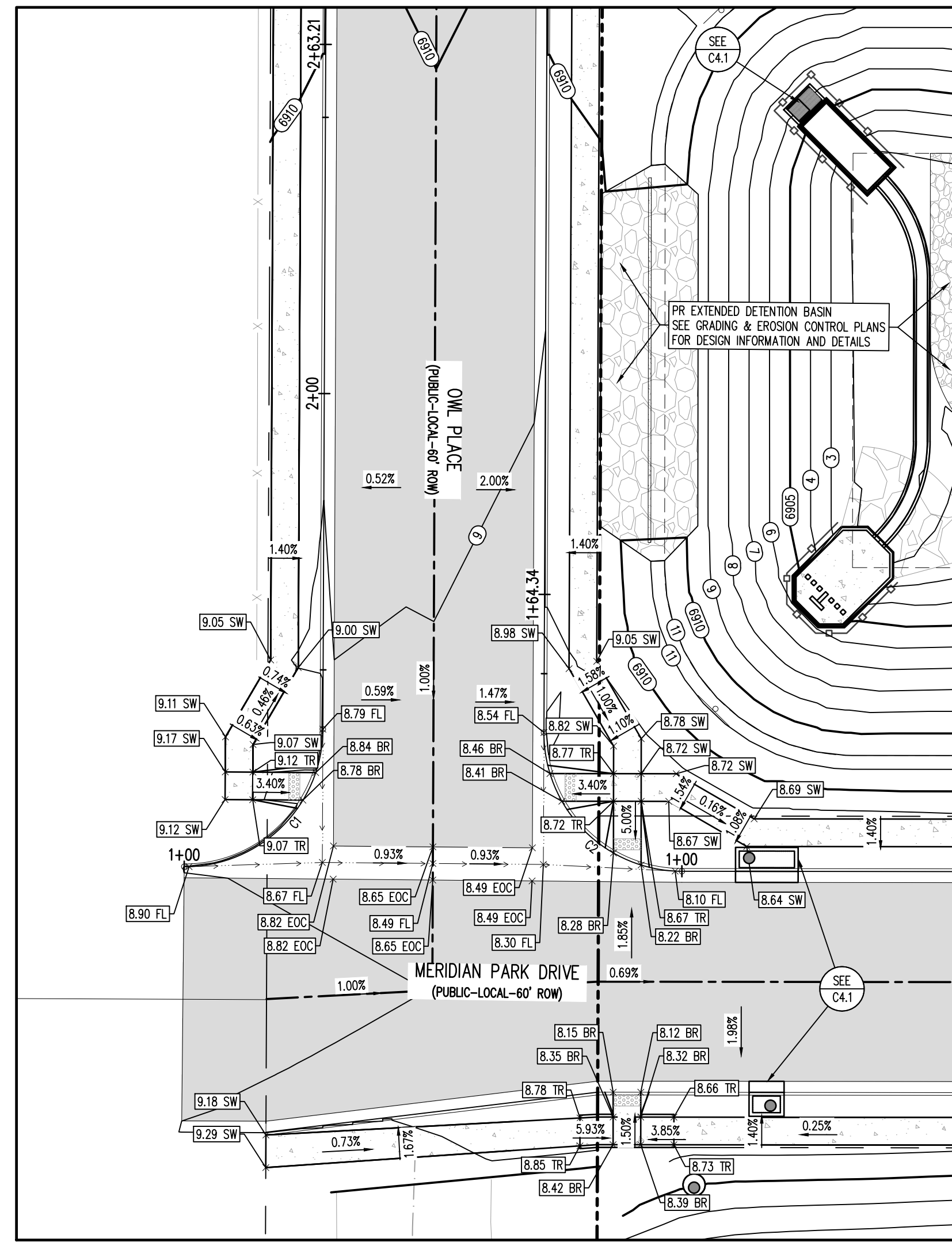
Meridian Storage, LLC, 15700 County Road 200, Falcon, Colorado 80931. This drawing was created using AutoCAD 2013. All drawings are in feet and inches. All dimensions are to the centerline unless otherwise noted. All utility locations are shown as of the date of survey. All utility locations are shown as of the date of survey. All utility locations are shown as of the date of survey.

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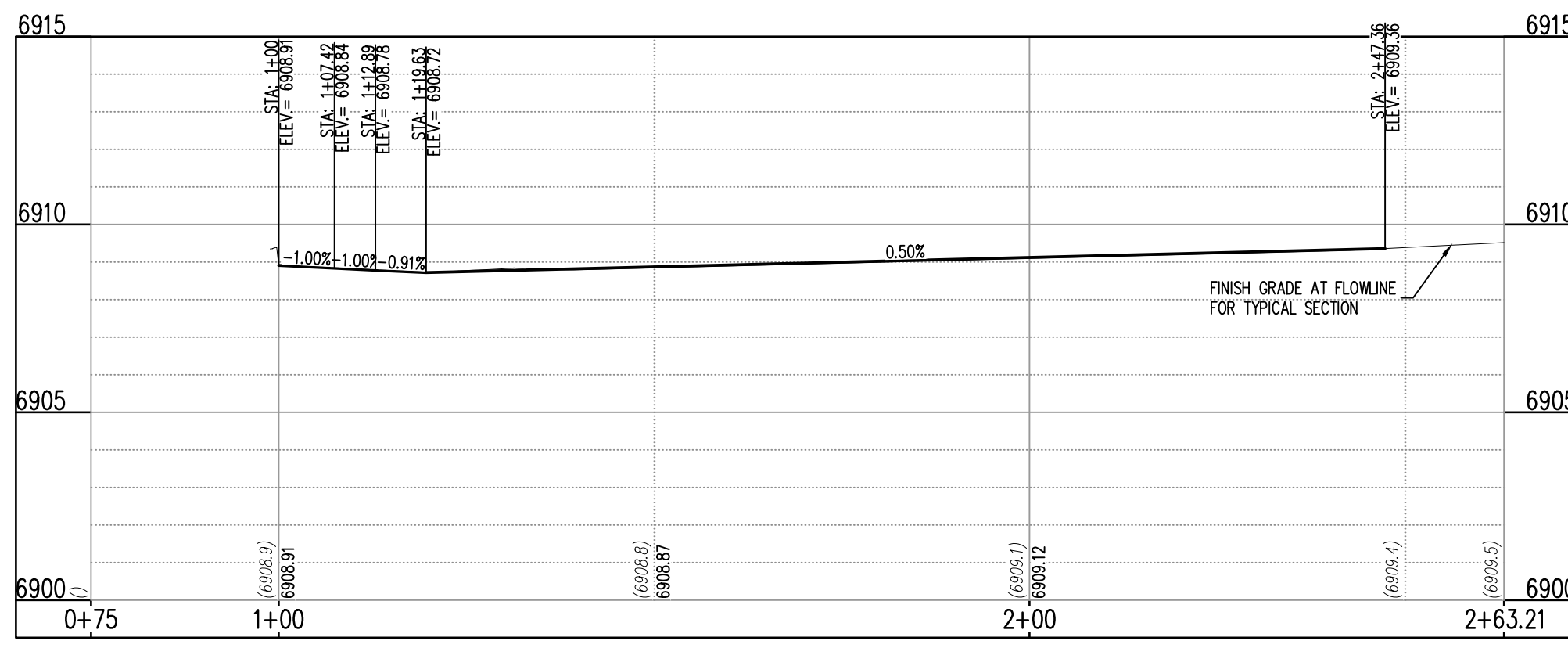


- UTILITY LEGEND**
- W — EXISTING WATER LINE
 - W — PROPOSED WATER LINE
 - SS — EXISTING SANITARY SEWER
 - SS — PROPOSED SANITARY SEWER
 - S — EXISTING STORM SEWER
 - S — PROPOSED STORM SEWER
 - G — EXISTING GAS LINE
 - G — PROPOSED GAS LINE
 - E — EXISTING OVERHEAD ELECTRIC
 - E — EXISTING FIBER OPTIC LINE
 - E — EXISTING FIBER OPTIC STRUCTURES
 - T — EXISTING TELEPHONE PEDESTAL
 - T — EXISTING ELECTRIC TRANSFORMER
 - P — EXISTING POWER POLE
 - S — EXISTING STREET LIGHT
 - S — PROPOSED STREET LIGHT
 - M — PROPOSED WATER METER
 - V — EXISTING WATER VALVE
 - V — PROPOSED WATER VALVE
 - H — EXISTING FIRE HYDRANT
 - H — PROPOSED FIRE HYDRANT
 - M — EXISTING STORM SEWER MANHOLE
 - M — PROPOSED STORM SEWER MANHOLE
 - M — EXISTING SANITARY SEWER MANHOLE
 - M — PROPOSED SANITARY SEWER MANHOLE

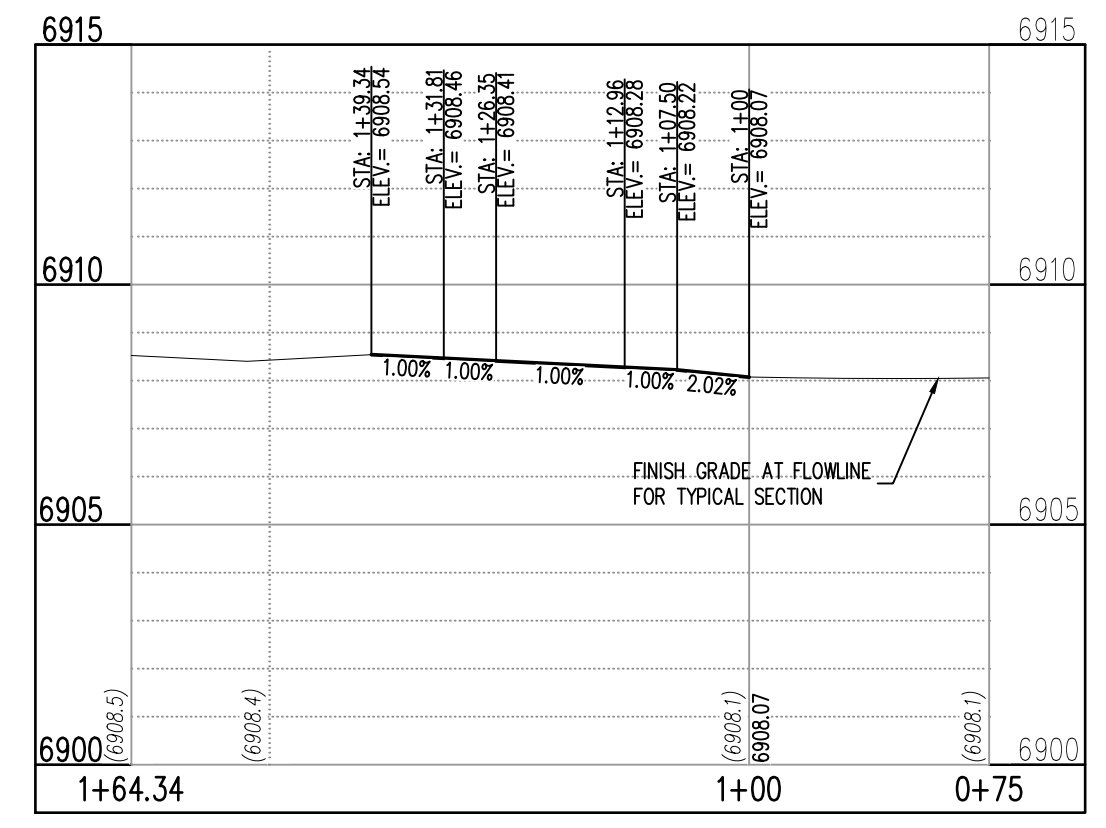
- DETAIL GRADING LEGEND**
- P — PROPERTY BOUNDARY LINE
 - A — ADJACENT PROPERTY BOUNDARY LINE
 - R — RIGHT OF WAY BOUNDARY LINE
 - L — PROPOSED LOT LINE
 - E — PROPOSED EASEMENT LINE
 - C — ROAD CENTERLINE
 - S — PROPOSED SWALE FLOWLINE
 - C — PROPOSED CURB AND GUTTER
 - S — PROPOSED SIDEWALK
 - 5485 — PROPOSED MAJOR CONTOUR
 - 66 — PROPOSED MINOR CONTOUR
 - 2.00% — PROPOSED SLOPE - PERCENT
 - 4:1 — PROPOSED SLOPE - RISE/RUN
 - 89.00 HP — PROPOSED SPOT ELEVATION - HIGH POINT
 - 89.00 LP — PROPOSED SPOT ELEVATION - LOW POINT
 - 89.00 TR — PROPOSED SPOT ELEVATION - TOP OF RAMP
 - 89.00 BR — PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
 - 89.00 FL — PROPOSED SPOT ELEVATION - FLOW LINE
 - 89.00 CL — PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
 - 89.00 TC — PROPOSED SPOT ELEVATION - TOP BACK OF CURB
 - 89.00 LP — PROPOSED SPOT ELEVATION - LIP OF GUTTER
 - 89.00 FG — PROPOSED SPOT ELEVATION - FINISHED GRADE
 - 89.00 SW — PROPOSED SPOT ELEVATION - SIDEWALK
 - 89.00 EOC — PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
 - 89.00 EOA — PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

MERIDIAN PARK DRIVE (B) & OWL PLACE (A) - PUBLIC 60' R.O.W.
 25 MPH DESIGN SPEED (LOCAL)
 SCALE: 1"=20'

FLOW LINE CURVE SEGMENT TABLE					
CURVE TAG #	DELTA	LENGTH (FT)	RADIUS (FT)	CHORD BEARING	CHORD LENGTH (FT)
C2	90°10'06"	39.34	25.00	S44°35'42"W	35.41
C1	89°59'42"	39.27	25.00	S45°19'24"E	35.35



ST-B & ST-A (LT) (STA: 1+00 - 2+63.21)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-A (RT) (STA: 1+00 - 1+64.34)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

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BENCHMARK
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 2496A" NAVD88 ELEVATION = 6947.67

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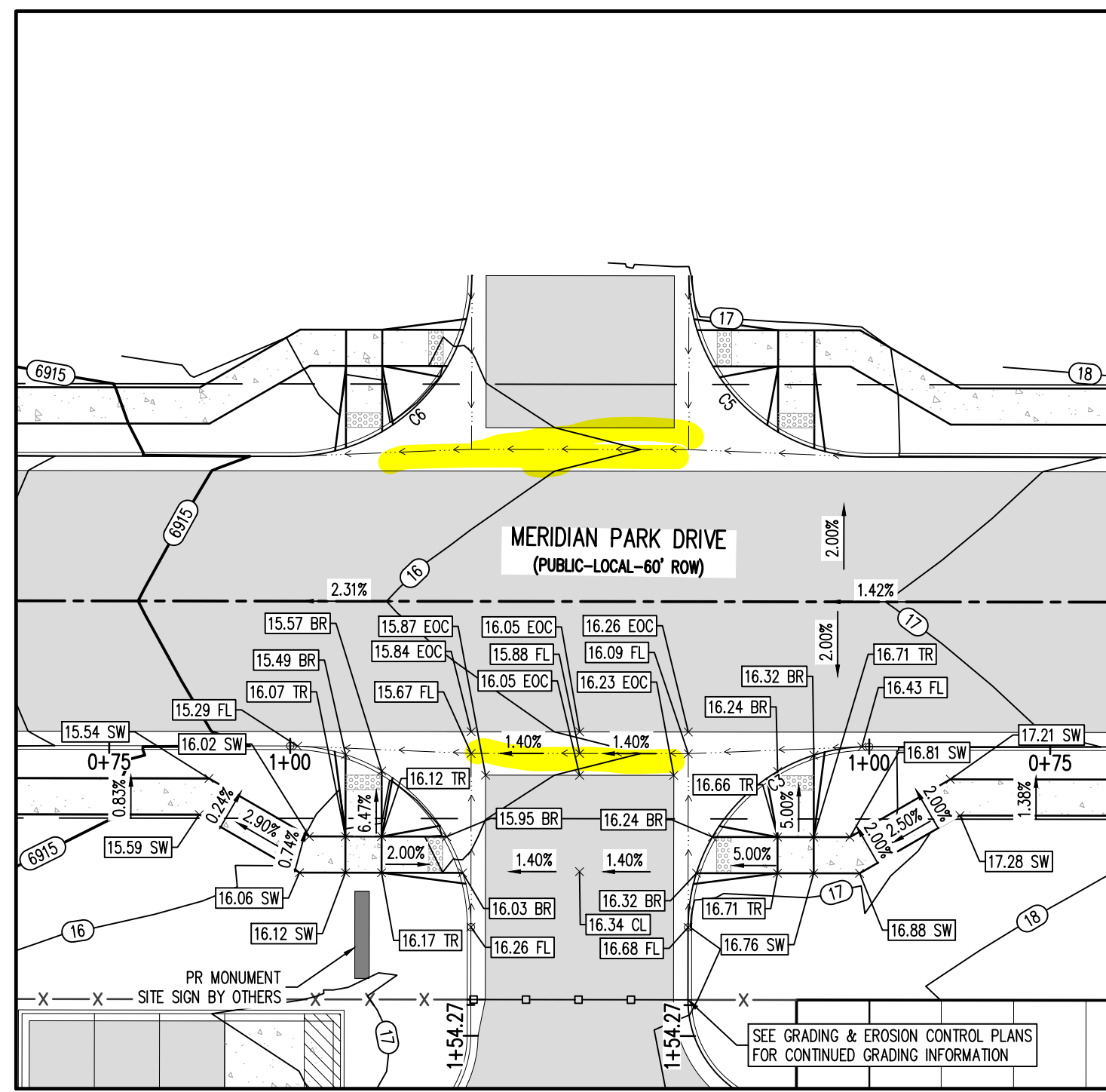


#	Date	Issue / Description	Init.

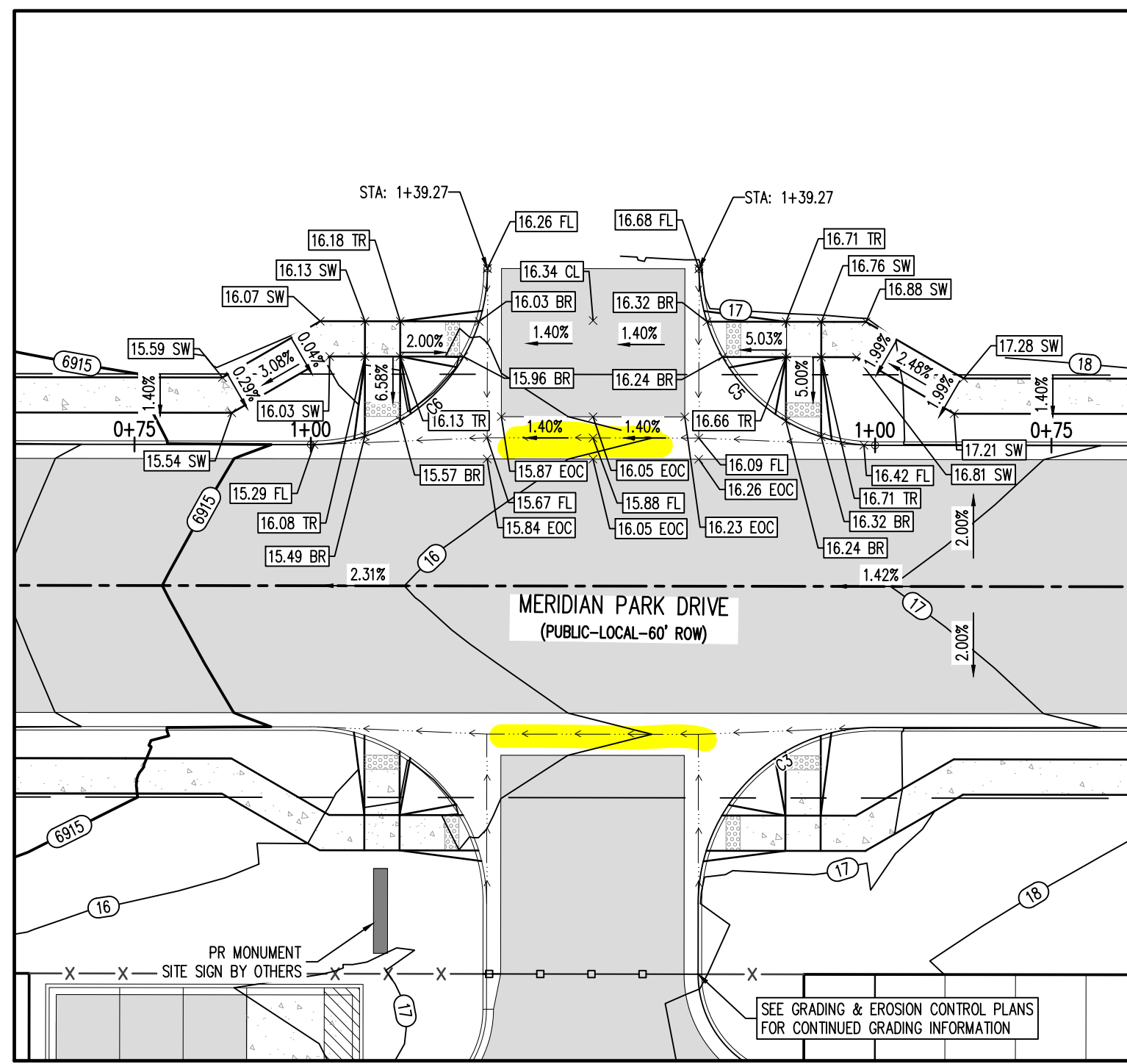
Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

INTERSECTION DETAILS

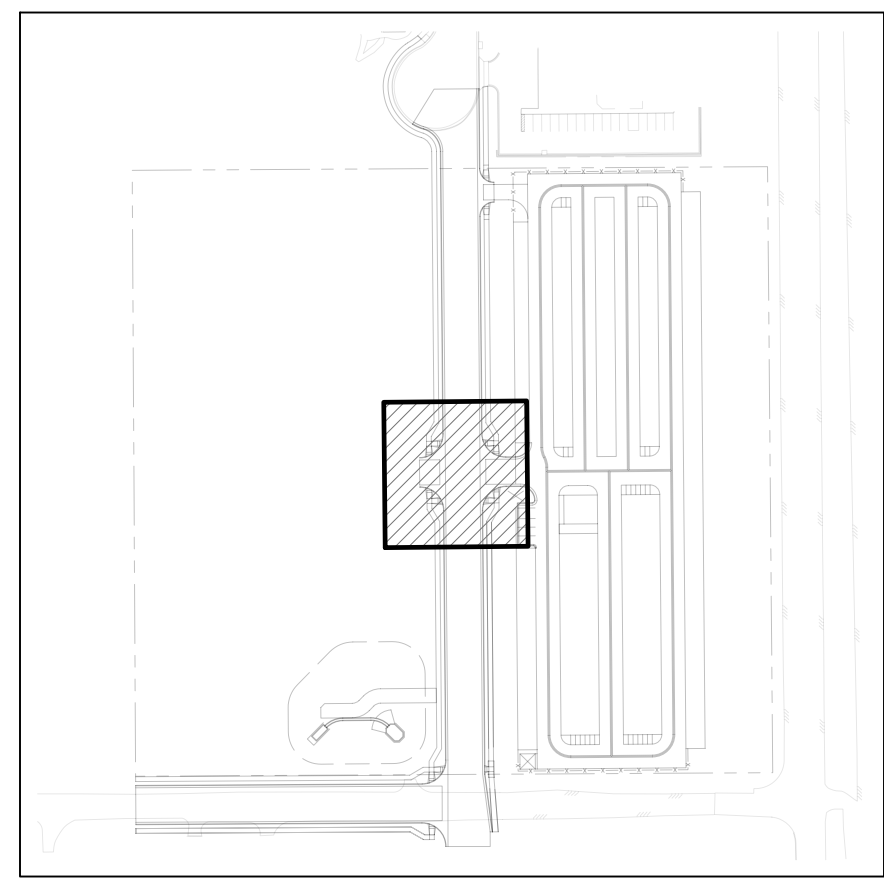
C3.3
 Sheet 10 of 25



MERIDIAN PARK DRIVE (B) & STREET C (EAST) – PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
 SCALE: 1"=20'



MERIDIAN PARK DRIVE (B) & STREET C (WEST) – PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
 SCALE: 1"=20'

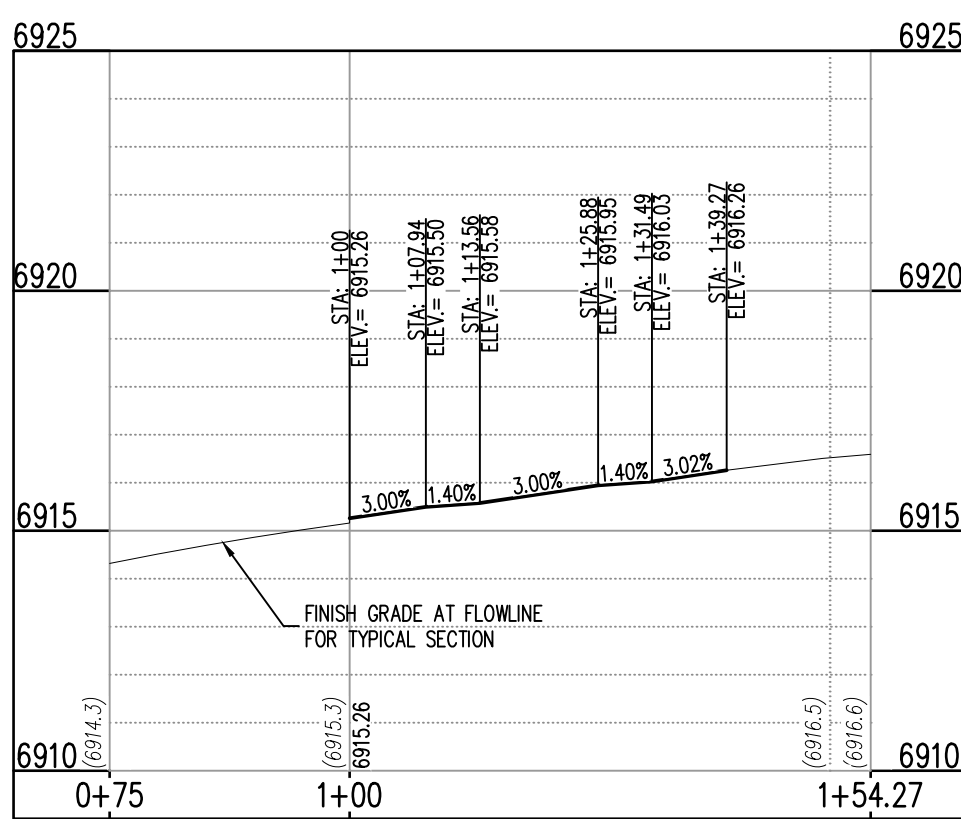


KEYMAP
 SCALE: 1"=200'

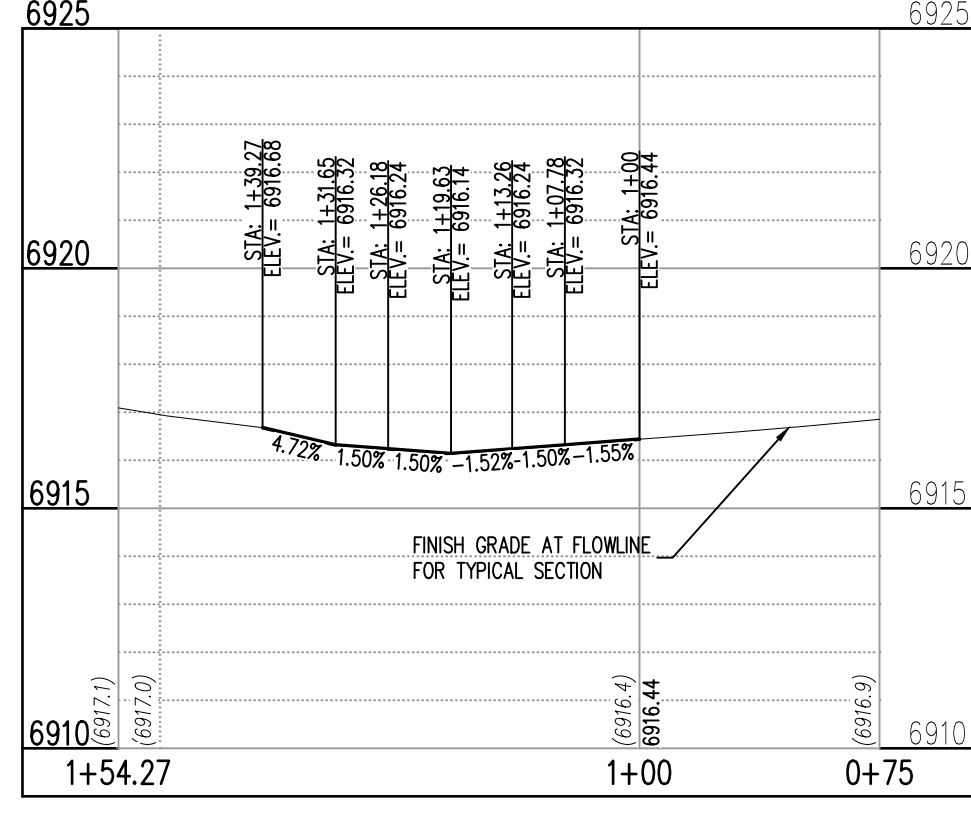
DETAIL GRADING LEGEND

- PROPERTY BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY BOUNDARY LINE
- PROPOSED LOT LINE
- PROPOSED EASEMENT LINE
- ROAD CENTERLINE
- PROPOSED SWALE FLOWLINE
- PROPOSED CURB AND GUTTER
- PROPOSED SIDEWALK
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED SLOPE - PERCENT
- PROPOSED SLOPE - RISE/RUN
- PROPOSED SPOT ELEVATION - HIGH POINT
- PROPOSED SPOT ELEVATION - LOW POINT
- PROPOSED SPOT ELEVATION - TOP OF RAMP
- PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
- PROPOSED SPOT ELEVATION - FLOW LINE
- PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
- PROPOSED SPOT ELEVATION - TOP BACK OF CURB
- PROPOSED SPOT ELEVATION - LIP OF GUTTER
- PROPOSED SPOT ELEVATION - FINISHED GRADE
- PROPOSED SPOT ELEVATION - SIDEWALK
- PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
- PROPOSED SPOT ELEVATION - EDGE OF ASPHALT

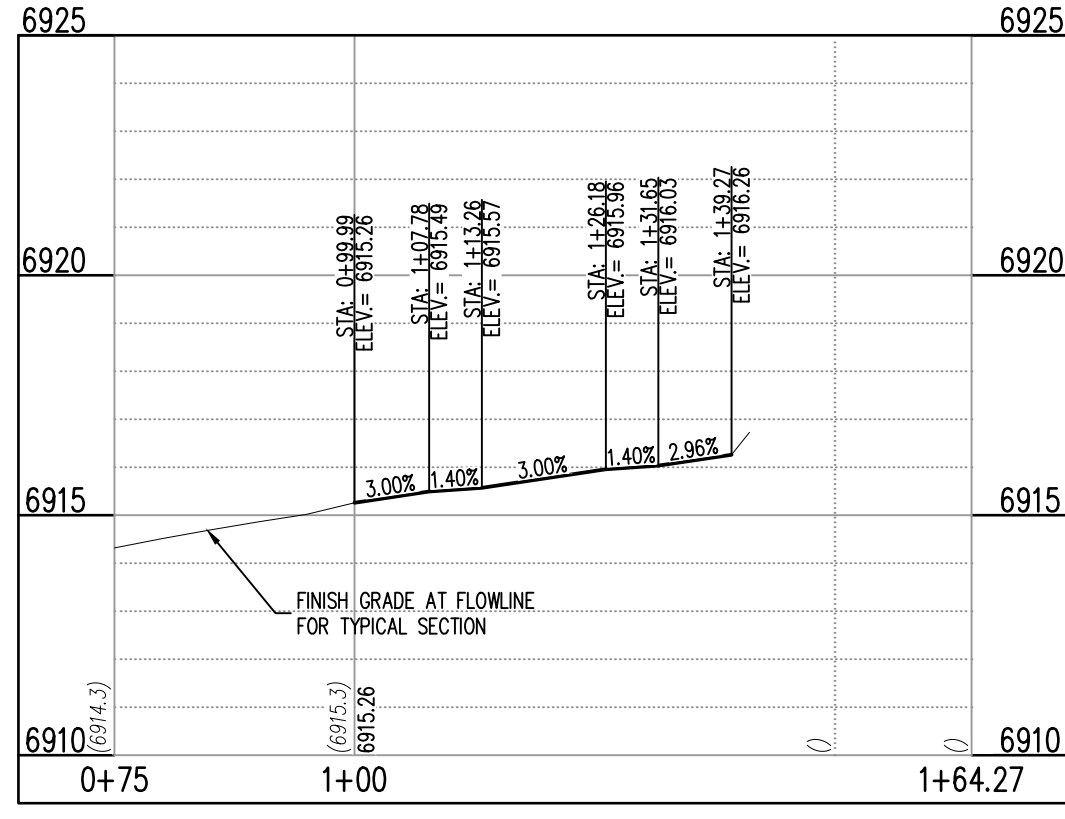
FLOW LINE CURVE SEGMENT TABLE					
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C6	90°00'00"	39.27	25.00	S45°29'21"E	35.36



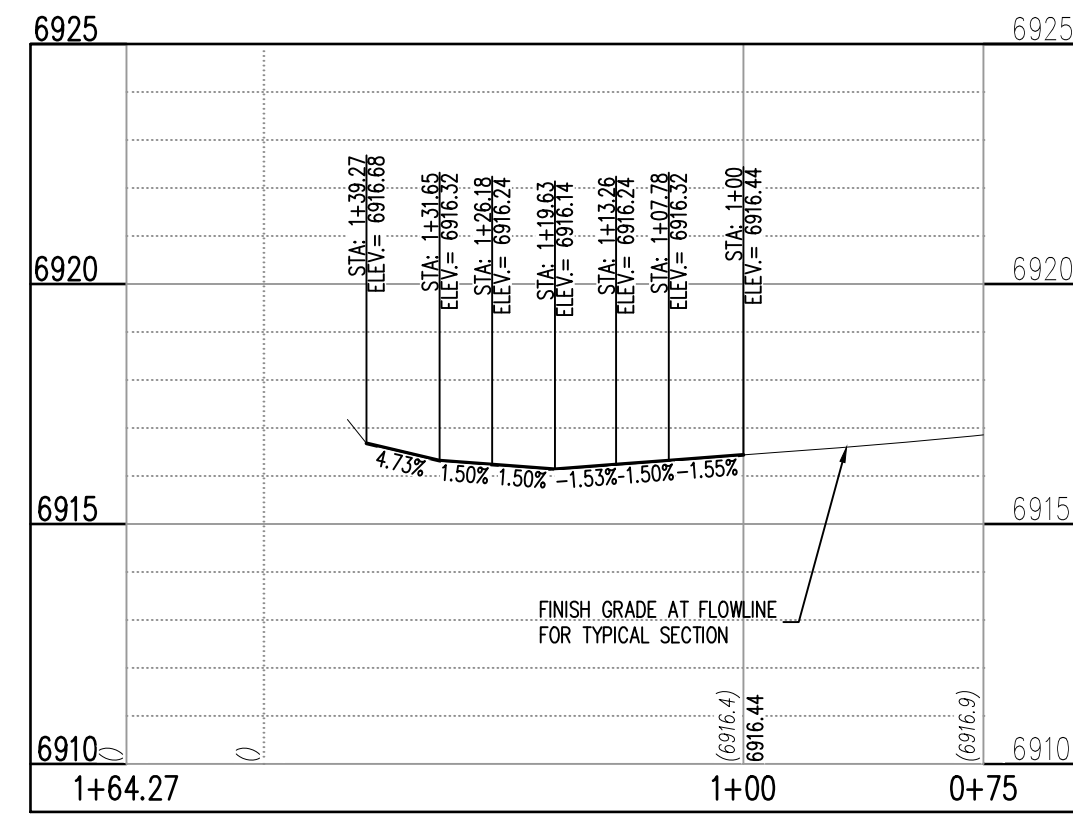
ST-B & ST-C (EAST) (LT) (STA: 0+75 - 1+54.27)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (EAST) (RT) (STA: 0+75 - 1+54.27)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



ST-B & ST-C (WEST) (LT) (STA: 0+75 - 1+64.27)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



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BENCHMARK
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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MERIDIAN STORAGE, LLC
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 EL PASO COUNTY, FALCON, CO 80931

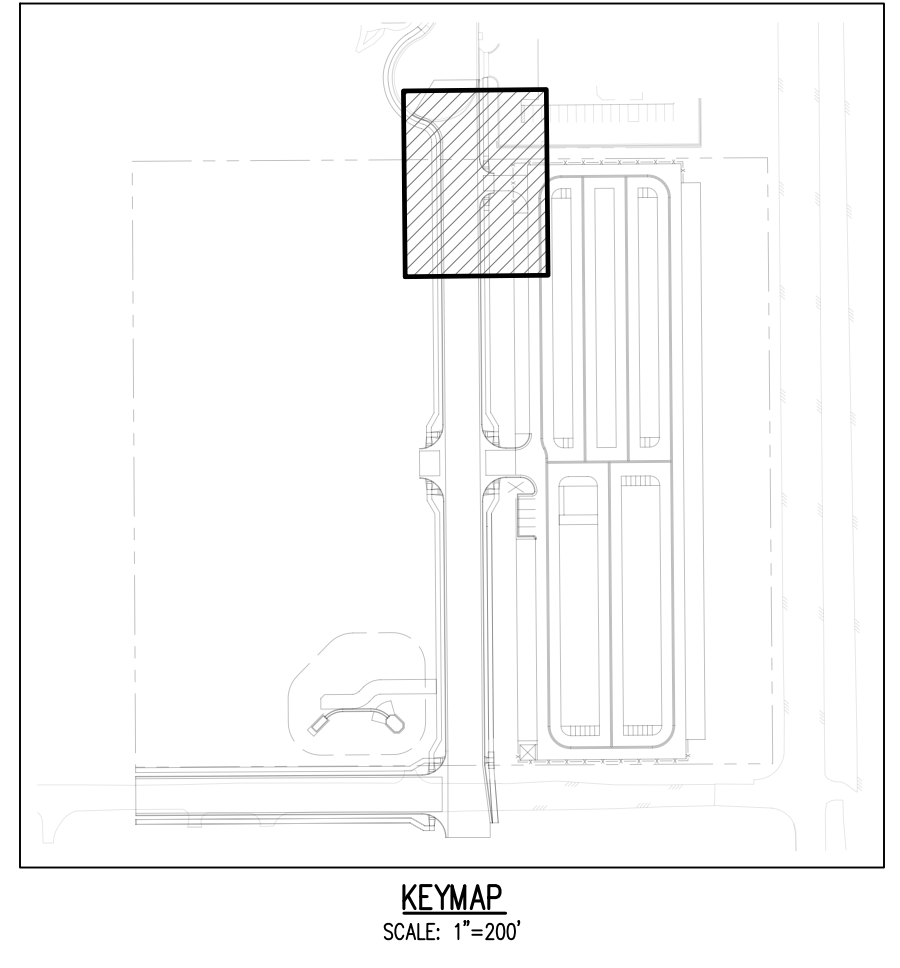
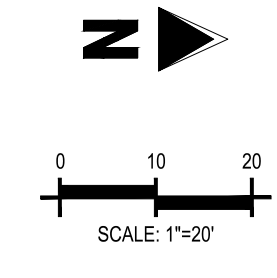
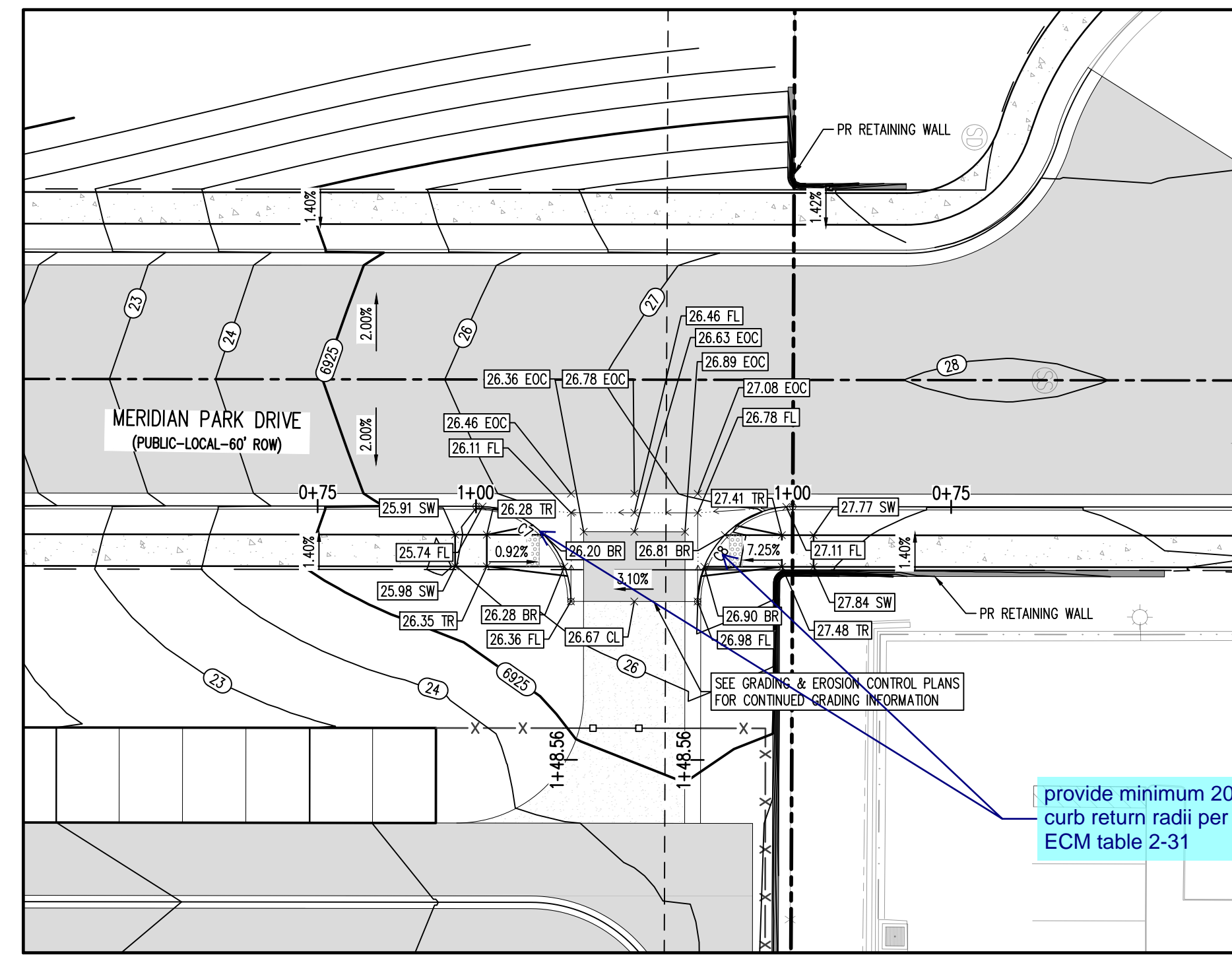
#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

INTERSECTION DETAILS

Call out and label all crosspans at all intersections and driveway access points along Meridian Park extension

Galloway US, LLC. 1155 Kelly Johnson Blvd., Suite 305, Colorado Springs, CO 80920
 719.900.7220
 GallowayUS.com
 11/20/2023

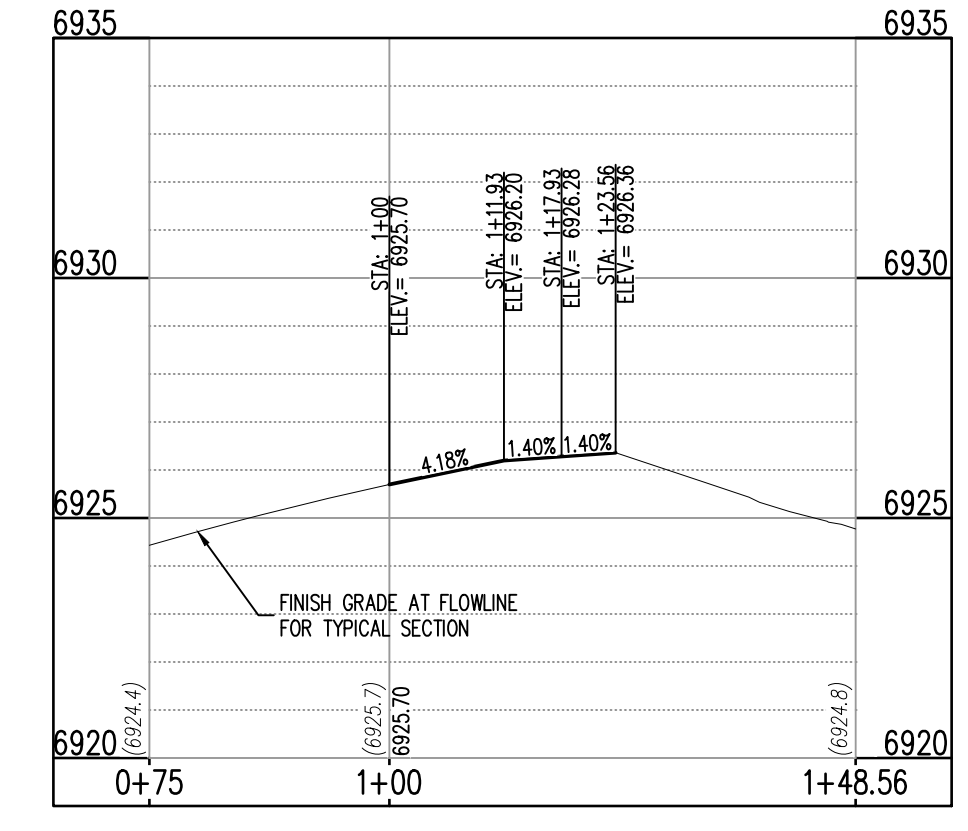


MERIDIAN PARK DRIVE (B) & STREET D - PUBLIC 60' R.O.W.
25 MPH DESIGN SPEED (LOCAL)
SCALE: 1"=20'

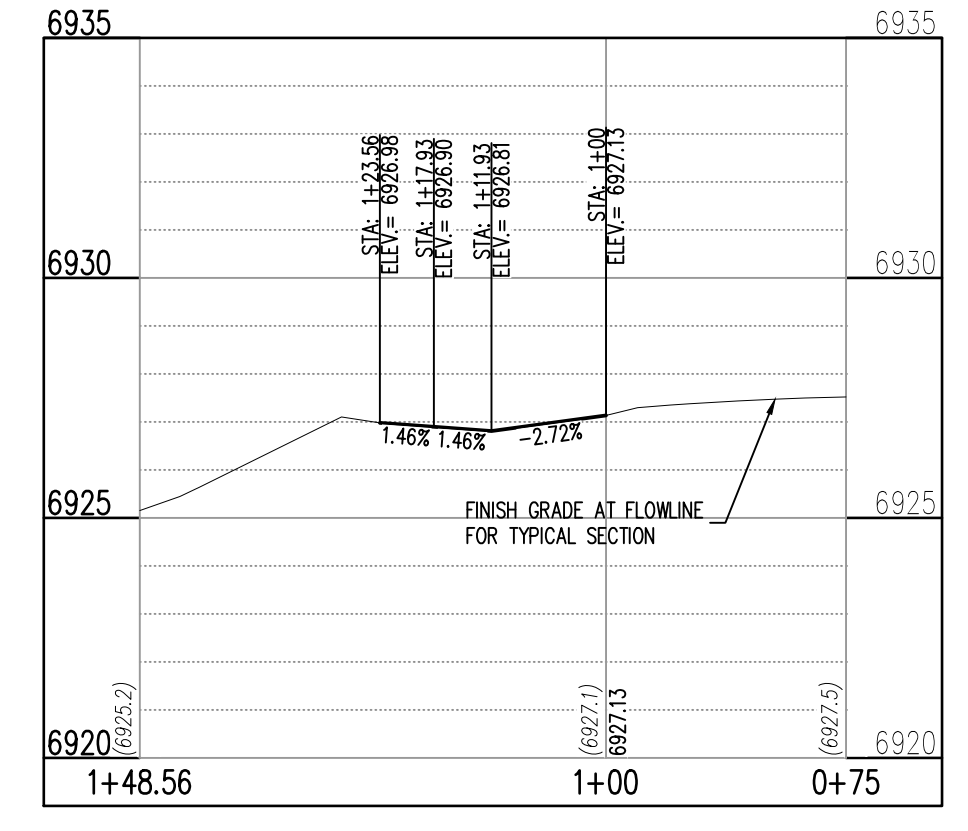
FLOW LINE CURVE SEGMENT TABLE					
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C8	90°00'00"	23.56	15.00	S45°29'21"E	21.21

- UTILITY LEGEND**
- W- EXISTING WATER LINE
 - W- PROPOSED WATER LINE
 - SS- EXISTING SANITARY SEWER
 - SS- PROPOSED SANITARY SEWER
 - EXISTING STORM SEWER
 - PROPOSED STORM SEWER
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 - G- PROPOSED GAS LINE
 - UT- EXISTING UNDERGROUND TELEPHONE
 - GHE- EXISTING OVERHEAD ELECTRIC
 - FO- EXISTING FIBER OPTIC LINE
 - (F) (S) EXISTING FIBER OPTIC STRUCTURES
 - (T) EXISTING TELEPHONE PEDESTAL
 - (E) EXISTING ELECTRIC TRANSFORMER
 - (P) EXISTING POWER POLE
 - (S) EXISTING STREET LIGHT
 - (P) PROPOSED STREET LIGHT
 - (M) PROPOSED WATER METER
 - (V) EXISTING WATER VALVE
 - (V) PROPOSED WATER VALVE
 - (FH) EXISTING FIRE HYDRANT
 - (FH) PROPOSED FIRE HYDRANT
 - (M) EXISTING STORM SEWER MANHOLE
 - (M) PROPOSED STORM SEWER MANHOLE
 - (M) EXISTING SANITARY SEWER MANHOLE
 - (M) PROPOSED SANITARY SEWER MANHOLE

- DETAIL GRADING LEGEND**
- PROPERTY BOUNDARY LINE
 - ADJACENT PROPERTY BOUNDARY LINE
 - RIGHT OF WAY BOUNDARY LINE
 - PROPOSED LOT LINE
 - PROPOSED EASEMENT LINE
 - ROAD CENTERLINE
 - PROPOSED SWALE FLOWLINE
 - PROPOSED CURB AND GUTTER
 - PROPOSED SIDEWALK
 - (S485) PROPOSED MAJOR CONTOUR
 - (66) PROPOSED MINOR CONTOUR
 - 2.00% PROPOSED SLOPE - PERCENT
 - 4:1 PROPOSED SLOPE - RISE/RUN
 - (89.00 HP) PROPOSED SPOT ELEVATION - HIGH POINT
 - (89.00 LP) PROPOSED SPOT ELEVATION - LOW POINT
 - (89.00 TR) PROPOSED SPOT ELEVATION - TOP OF RAMP
 - (89.00 BR) PROPOSED SPOT ELEVATION - BOTTOM OF RAMP
 - (89.00 FL) PROPOSED SPOT ELEVATION - FLOWLINE
 - (89.00 CL) PROPOSED SPOT ELEVATION - ROADWAY CENTER LINE
 - (89.00 TBC) PROPOSED SPOT ELEVATION - TOP BACK OF CURB
 - (89.00 LIP) PROPOSED SPOT ELEVATION - LIP OF GUTTER
 - (89.00 FG) PROPOSED SPOT ELEVATION - FINISHED GRADE
 - (89.00 SW) PROPOSED SPOT ELEVATION - SIDEWALK
 - (89.00 EOC) PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
 - (89.00 EOA) PROPOSED SPOT ELEVATION - EDGE OF ASPHALT



ST-B & ST-D (STA: 0+75 - 1+48.56)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=6'



ST-B & ST-D (STA: 0+75 - 1+48.56)
SCALE: HORIZONTAL 1"=20', VERTICAL 1"=6'

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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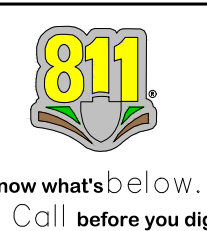
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BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 2496A" NAVD88 ELEVATION = 6947.67

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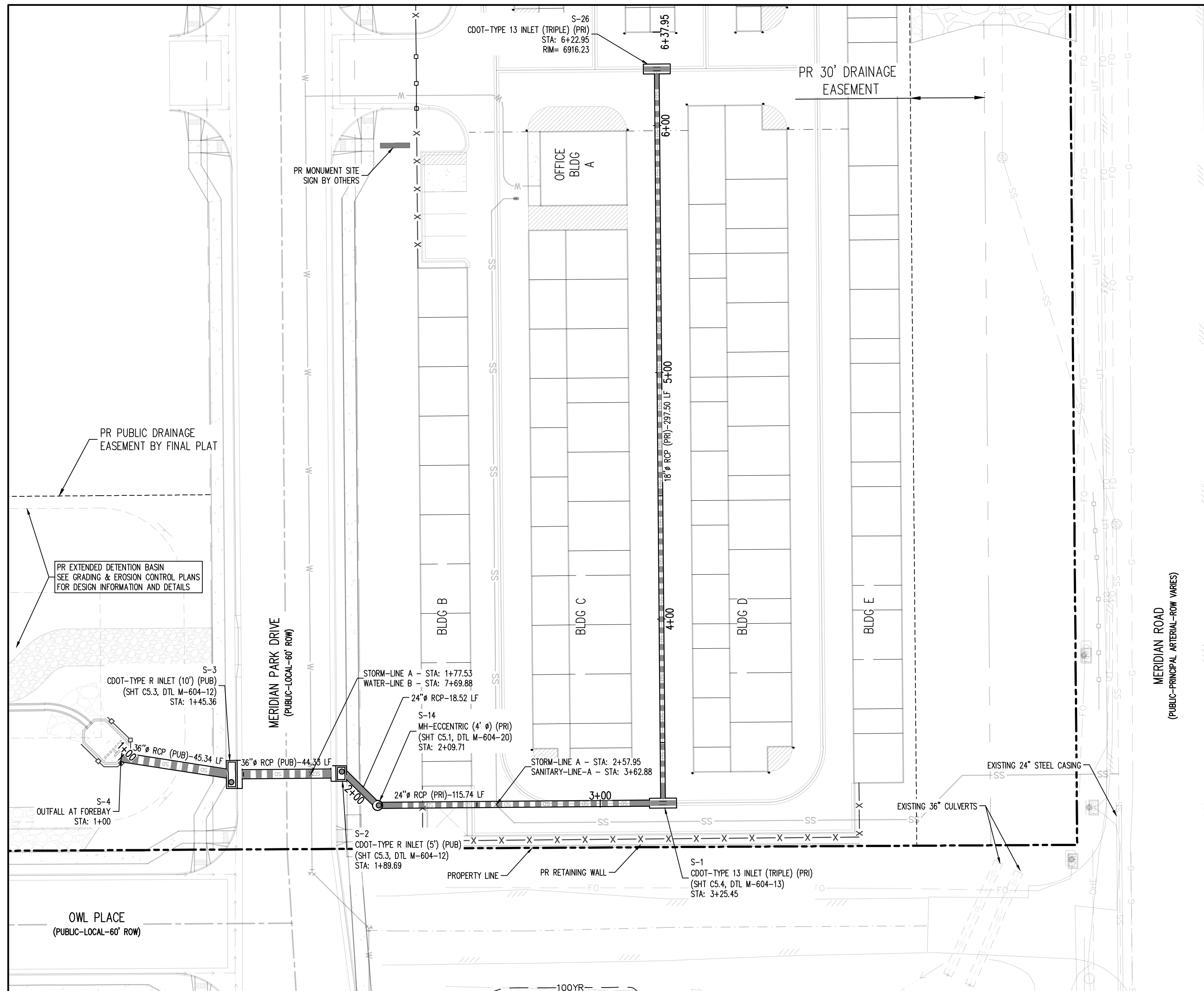


CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

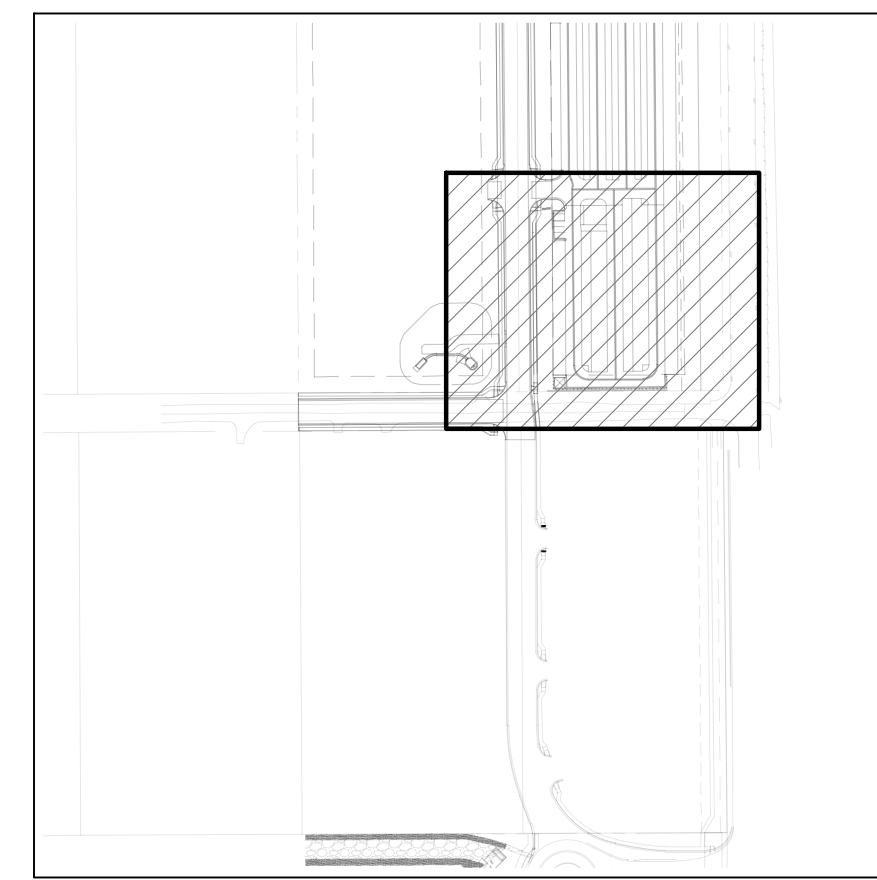
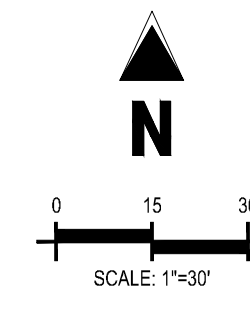
#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

INTERSECTION DETAILS



STORM DRAIN PLAN - LINE A
 SCALE: 1"=30'



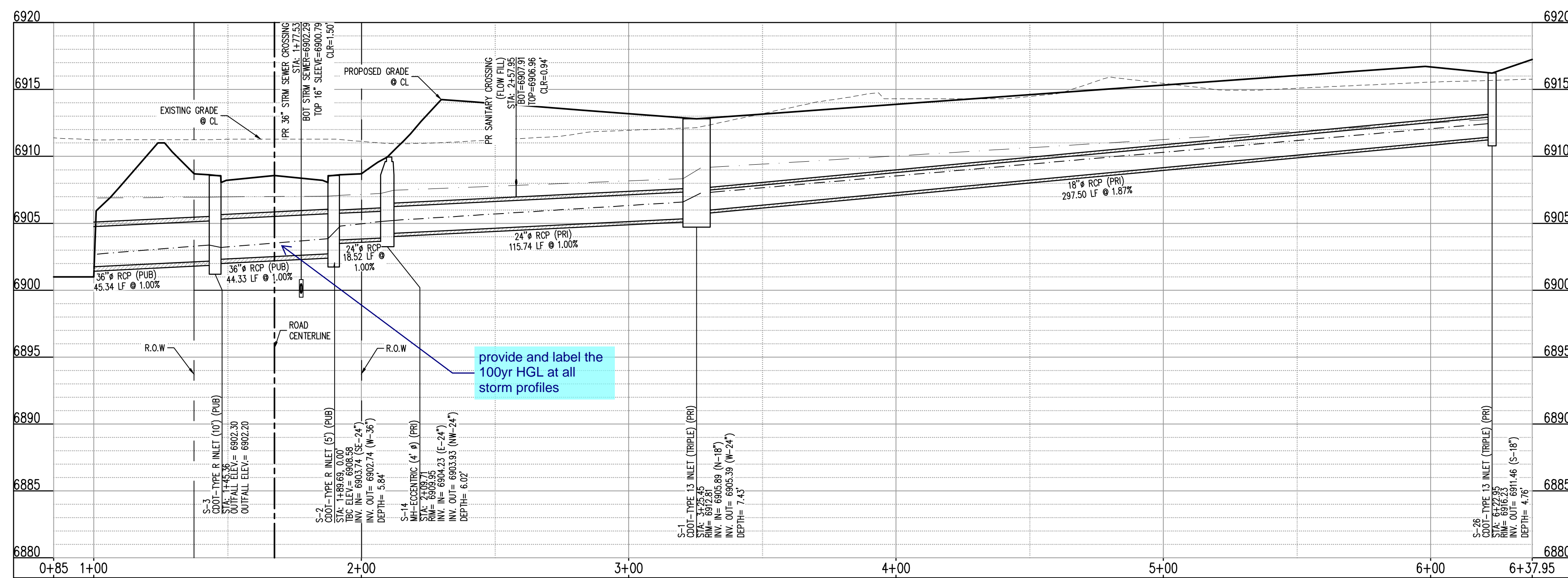
KEYMAP
 SCALE: 1"=300'

UTILITY LEGEND

- W- EXISTING WATER LINE
- W- PROPOSED WATER LINE
- SS- EXISTING SANITARY SEWER
- SS- PROPOSED SANITARY SEWER
- SS- EXISTING STORM SEWER
- SS- PROPOSED STORM SEWER
- G- EXISTING GAS LINE
- G- PROPOSED GAS LINE
- T- EXISTING UNDERGROUND TELEPHONE
- T- EXISTING OVERHEAD ELECTRIC
- FO- EXISTING FIBER OPTIC LINE
- FO- EXISTING FIBER OPTIC STRUCTURES
- TP- EXISTING TELEPHONE PEDESTAL
- EP- EXISTING ELECTRIC TRANSFORMER
- PP- EXISTING POWER POLE
- SL- EXISTING STREET LIGHT
- SL- PROPOSED STREET LIGHT
- WM- EXISTING WATER METER
- WM- EXISTING WATER VALVE
- VM- PROPOSED WATER VALVE
- FH- EXISTING FIRE HYDRANT
- FH- PROPOSED FIRE HYDRANT
- SM- EXISTING STORM SEWER MANHOLE
- SM- PROPOSED STORM SEWER MANHOLE
- SM- EXISTING SANITARY SEWER MANHOLE
- SM- PROPOSED SANITARY SEWER MANHOLE

SITE LEGEND

- PB- PROJECT BOUNDARY LINE
- AP- ADJACENT PROPERTY BOUNDARY LINE
- RW- RIGHT OF WAY LINE
- EAL- EXISTING ADJACENT LOT LINE
- PL- PROPOSED LOT LINE
- EL- EXISTING EASEMENT LINE
- EL- PROPOSED EASEMENT LINE
- RCL- PROPOSED ROAD CENTERLINE
- RCL- EXISTING ROAD CENTERLINE
- RL- PROPOSED RIDGE LINE
- RL- EXISTING RIDGE LINE
- SL- PROPOSED SWALE LINE
- SL- EXISTING SWALE LINE
- FB- 100-YR FLOODPLAIN BOUNDARY
- X- EXISTING FENCE
- X- PROPOSED FENCE
- G- EXISTING GUARDRAIL
- CG- PROPOSED CURB AND GUTTER
- CG- EXISTING CURB AND GUTTER
- EA- EXISTING EDGE OF ASPHALT
- SS- PROPOSED SIDEWALK
- TR- PROPOSED TRAIL
- GR- PROPOSED GRAVEL PER EGM TABLE D-7
- RIP- RIPRAP OUTFALL PADS
- OS- EXISTING SIGN
- PS- PROPOSED SIGN
- BO- PROPOSED BOLLARDS



STORM DRAIN PROFILE - LINE A (STA: 0+85 - 6+37.95)
 SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

provide and label the 100yr HGL at all storm profiles

CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW:

PIPE I.D. (INCHES)	WALL THICKNESS (INCHES)	PIPE O.D. (INCHES)
12	2.00	16.00
15	2.25	19.50
18	2.50	23.00
21	2.75	26.50
24	3.00	30.00
27	3.25	33.50
30	3.50	37.00
33	3.75	40.50
36	4.00	44.00
42	4.50	51.00
48	5.00	58.00
54	5.50	65.00
60	6.00	72.00
66	6.50	78.50

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

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BENCHMARK
 THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

STORM DRAIN PLAN

BASIS OF BEARING

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BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP, STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

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Know what's below. Call before you dig.

SITE LEGEND

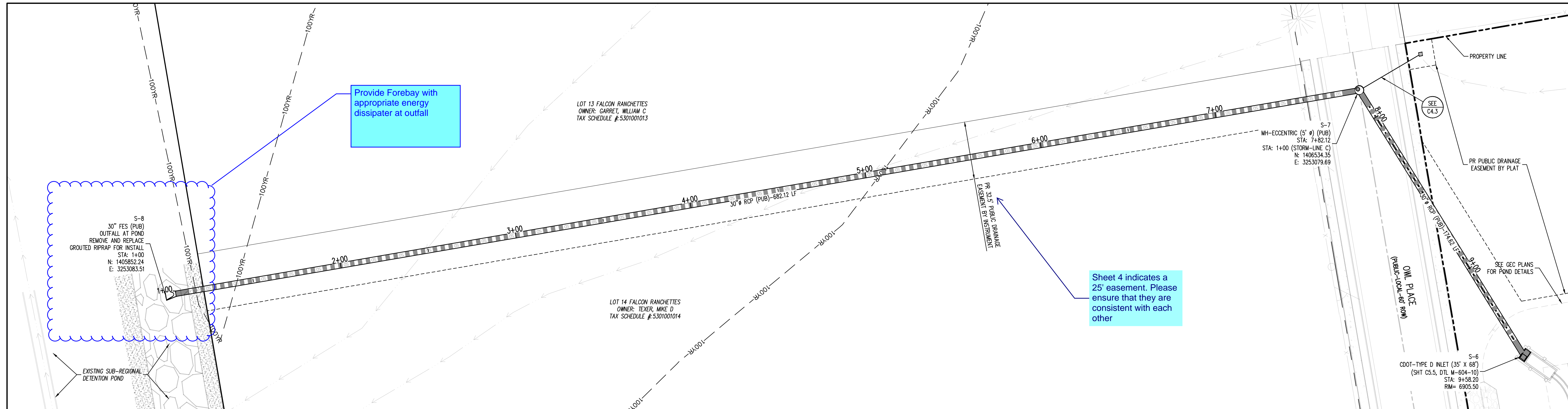
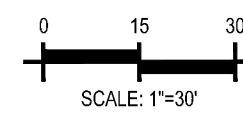
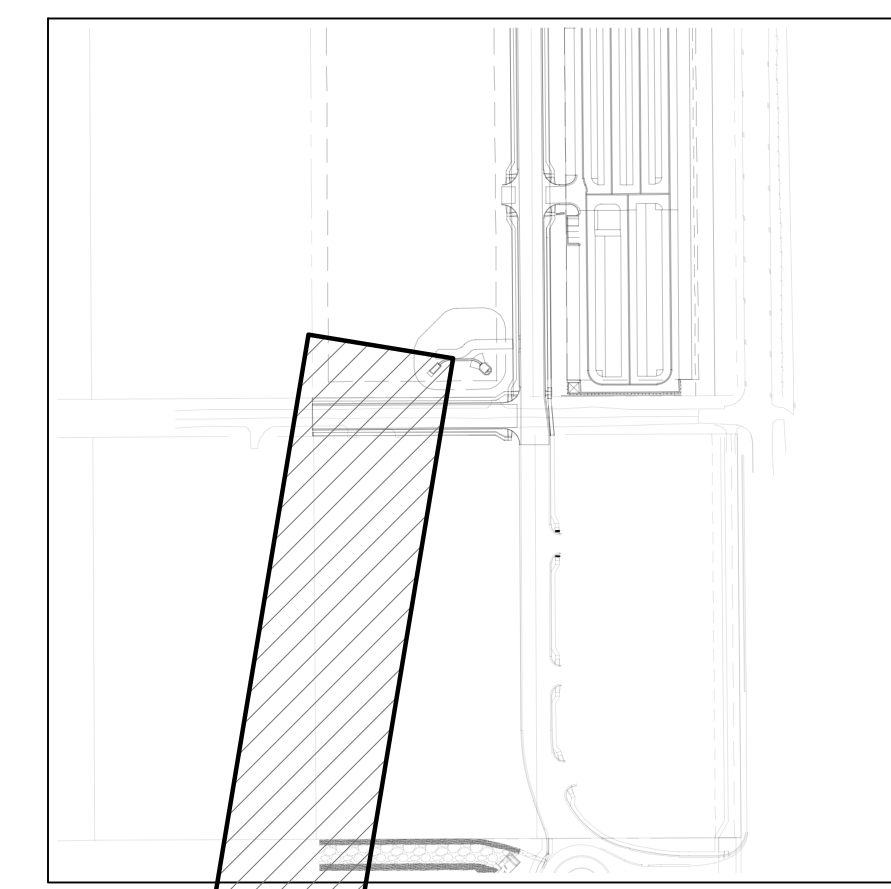
- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER ECM TABLE D-7
- RIPRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

UTILITY LEGEND

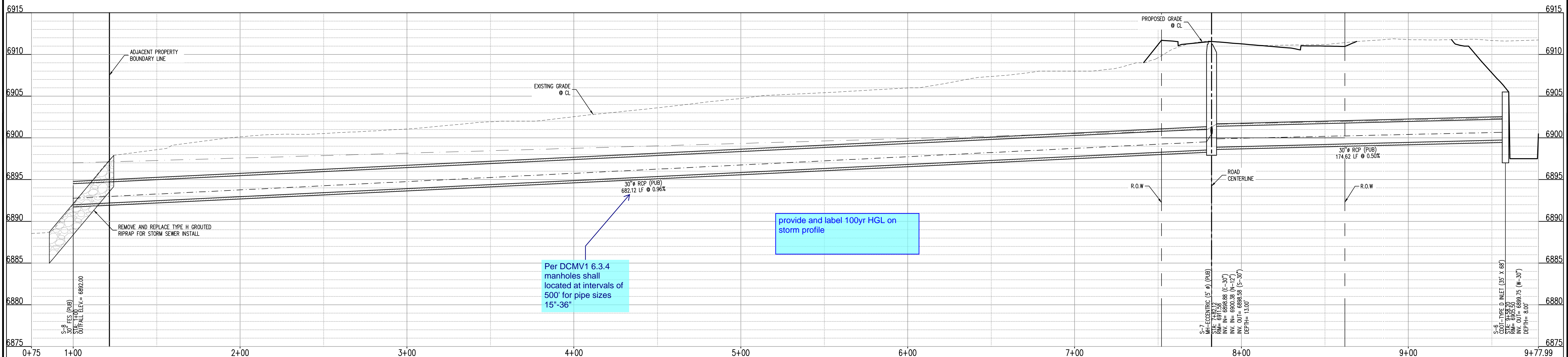
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- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
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- PROPOSED STORM SEWER
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- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
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CALCULATIONS TO TOP OF PIPE (TOP) FOR REINFORCED CONCRETE PIPE (RCP) ASSUMES WALL THICKNESS AS SHOWN BELOW:

PIPE I.D. (INCHES)	WALL THICKNESS (INCHES)	PIPE O.D. (INCHES)
12	2.00	16.00
15	2.25	19.50
18	2.50	23.00
21	2.75	26.50
24	3.00	30.00
27	3.25	33.50
30	3.50	37.00
33	3.75	40.50
36	4.00	44.00
42	4.50	51.00
48	5.00	58.00
54	5.50	65.00
60	6.00	72.00
66	6.50	78.50



STORM DRAIN PLAN - LINE B SCALE: 1"=30'



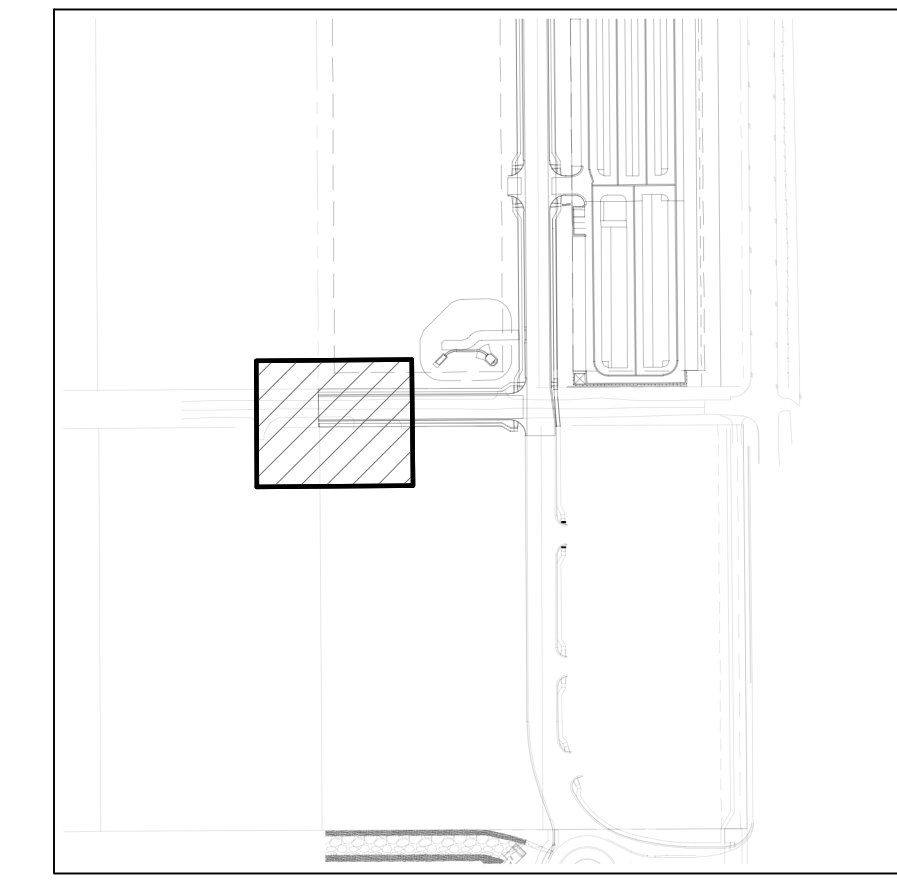
STORM DRAIN PROFILE - LINE B (STA: 1+00 - 9+96.33) SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



#	Date	Issue / Description	Init.

Project No: MRS01 Drawn By: JDM Checked By: CMWJ Date: PUB

STORM DRAIN PLAN



KEYMAP
SCALE: 1"=300'

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SITE LEGEND

	PROJECT BOUNDARY LINE
	ADJACENT PROPERTY BOUNDARY LINE
	RIGHT OF WAY LINE
	EXISTING ADJACENT LOT LINE
	PROPOSED LOT LINE
	EXISTING EASEMENT LINE
	PROPOSED EASEMENT LINE
	PROPOSED ROAD CENTERLINE
	EXISTING ROAD CENTERLINE
	PROPOSED RIDGE LINE
	PROPOSED SWALE LINE
	EXISTING SWALE LINE
	100 YR FLOODPLAIN BOUNDARY
	EXISTING FENCE
	PROPOSED FENCE
	EXISTING GUARDRAIL
	PROPOSED CURB AND GUTTER
	EXISTING CURB AND GUTTER
	EXISTING EDGE OF ASPHALT
	PROPOSED SIDEWALK
	PROPOSED TRAIL
	PROPOSED GRAVEL PER EGM TABLE D-7
	RRIPRAP OUTFALL PADS
	EXISTING SIGN
	PROPOSED SIGN
	PROPOSED BOLLARDS

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BENCHMARK
THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FLING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

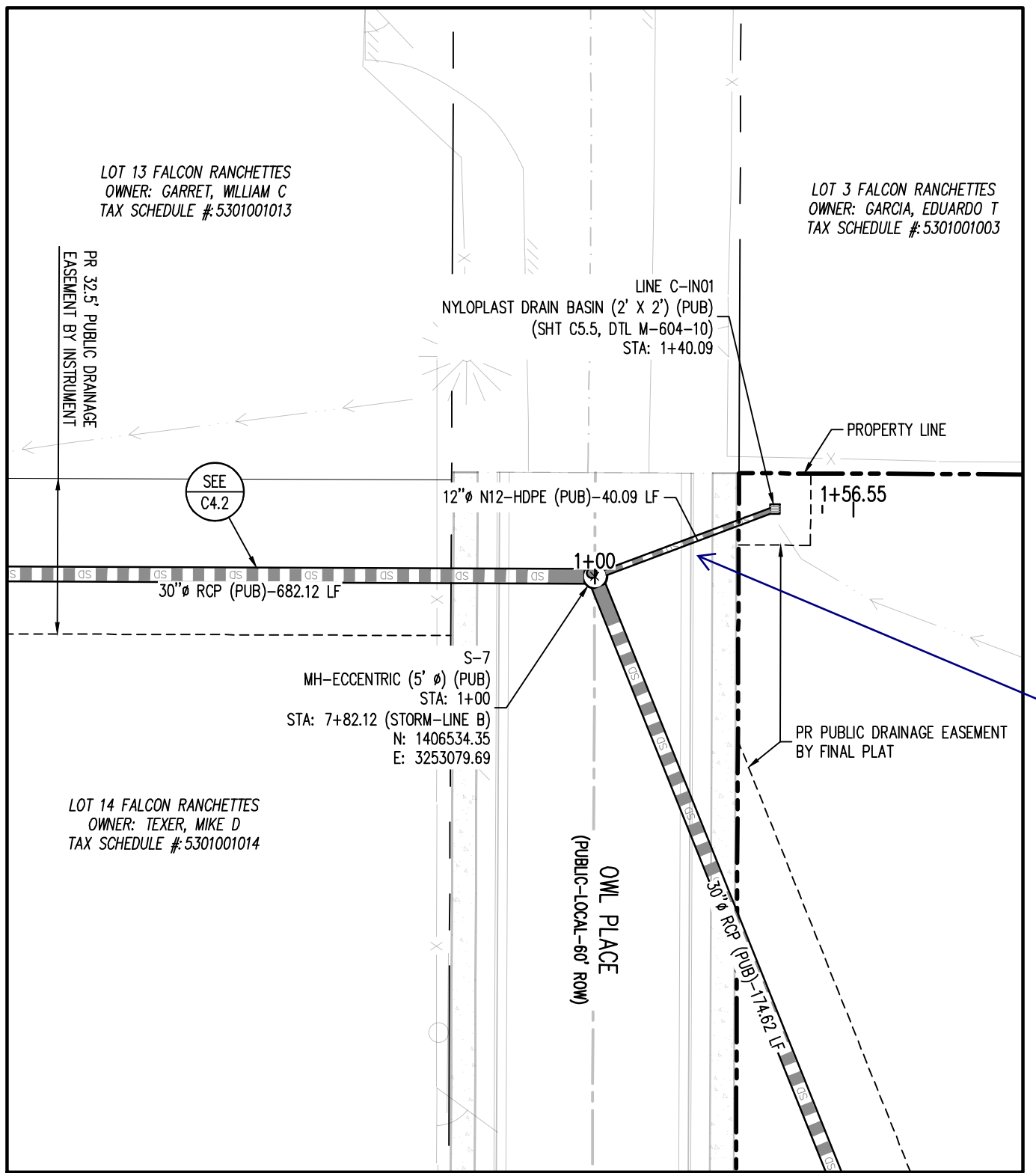
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

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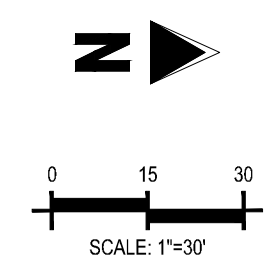
Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: PUB

STORM DRAIN PLAN

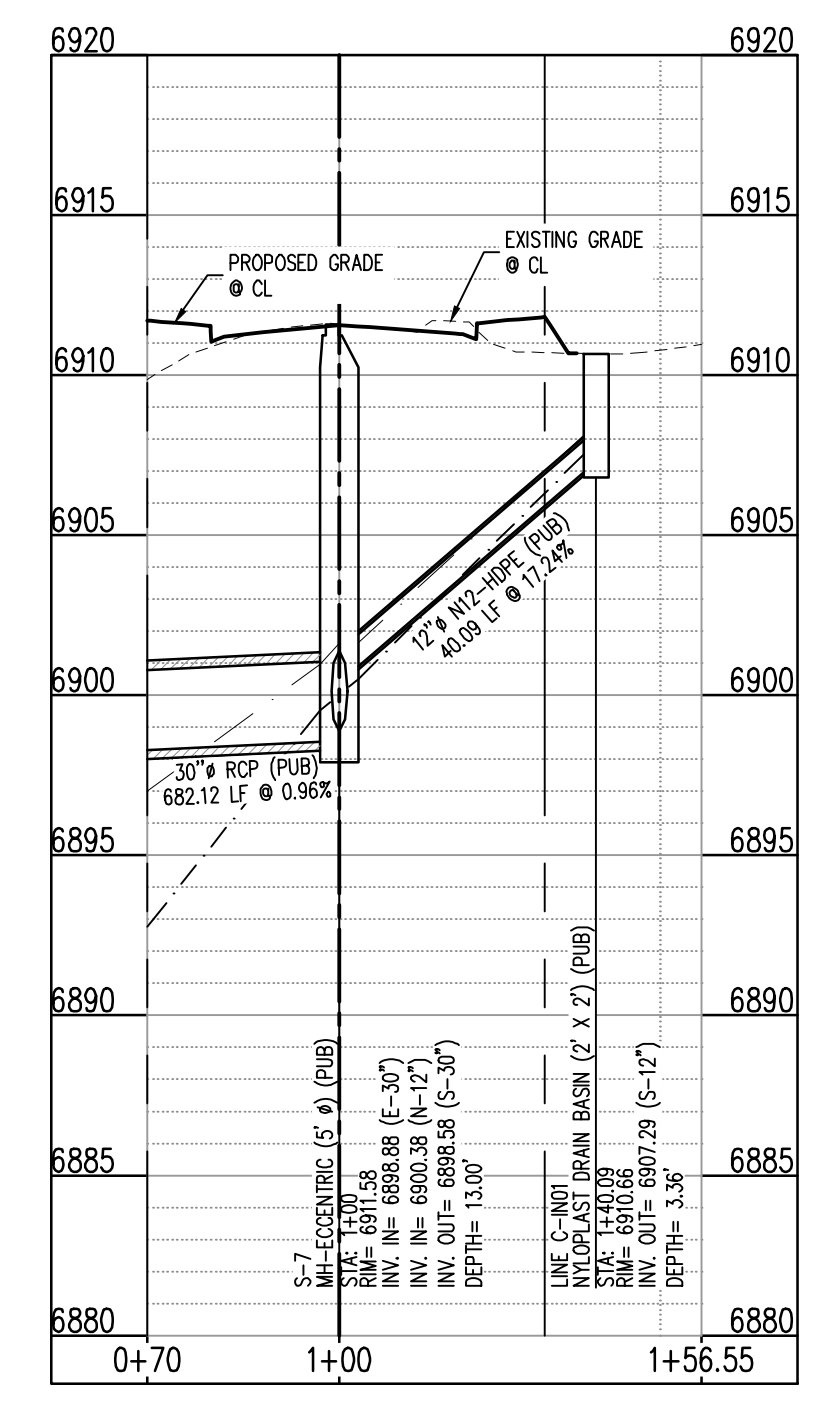
C4.3
Sheet 15 of 25



STORM DRAIN PLAN - LINE C
SCALE: 1"=30'



all storm sewers within the County's ROW are required to be RCP and a min. 18". See ECM 3.3.1.J.

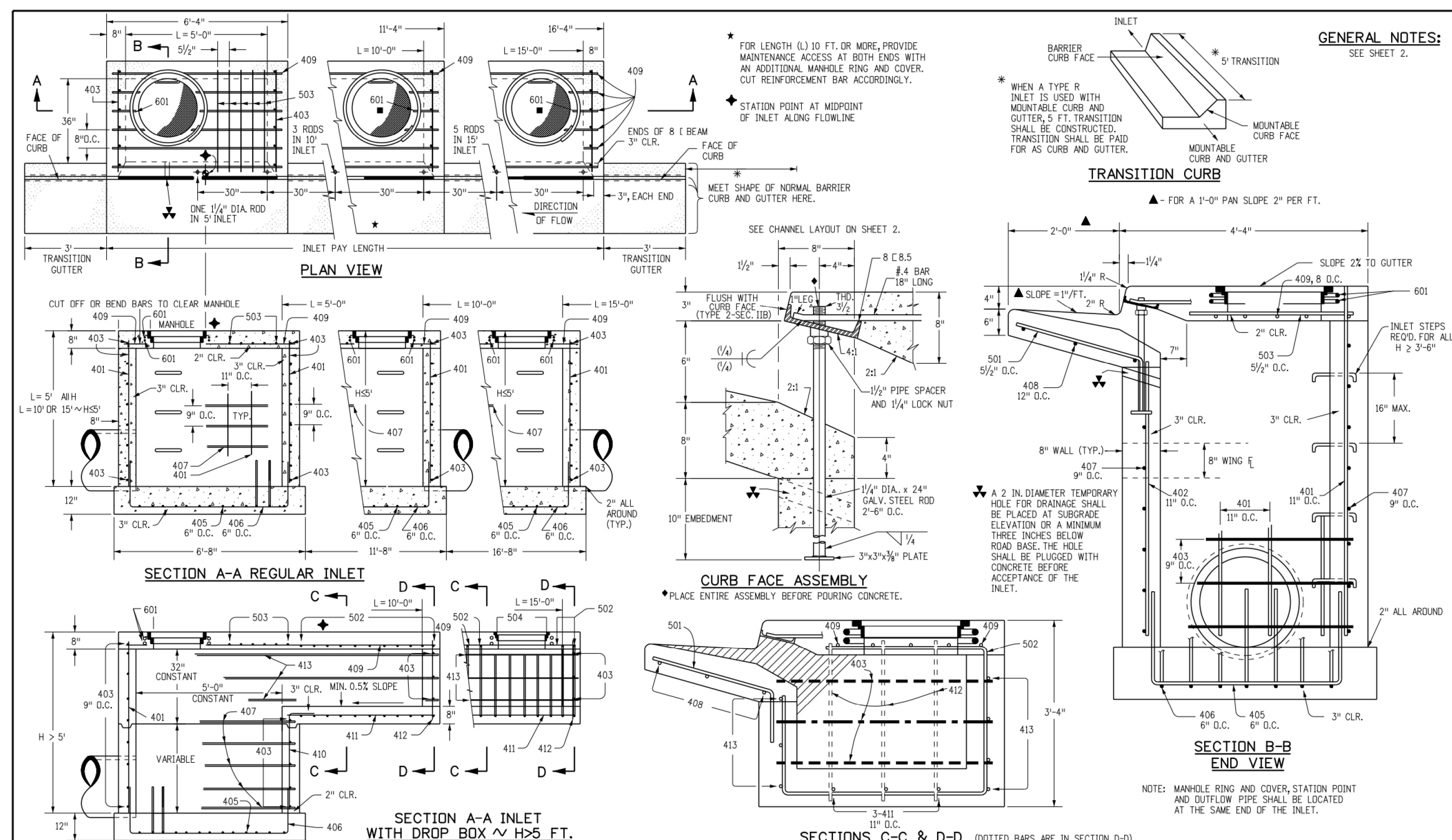


STORM DRAIN PROFILE - LINE C (STA: 1+00 - 2+06.65)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

15/06/2023 10:00:00 AM G:\Projects\23\SF23-XXX\Drawings\SF-23-XXX-C4.3.dwg (15/06/2023 10:00:00 AM) JDM



#	Date	Issue / Description	Init.



Computer File Information Creation Date: 07/31/19 Designer Initials: JBK Last Modification Date: 07/31/19 Detailer Initials: LTA CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: _____ Comments: _____ Date: _____ Comments: _____ Date: _____ Comments: _____	Colorado Department of Transportation 2829 West Howard Place CDDT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9866 Project Development Branch	<h2 style="text-align: center;">CURB INLET</h2> <h3 style="text-align: center;">TYPE R</h3> <p style="text-align: center;">Issued by the Project Development Branch July 31, 2019</p>	STANDARD PLAN NO. M-604-12 Standard Sheet No. 1 of 2 Project Sheet Number:
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MARK	BAR # OR SIZE	D.C. SPACING	TYPE	ALL INLETS				INLETS: H ≤ 5 FT.				INLETS: H > 5 FT.					
				L = 5 FT.		L = 10 FT.		L = 15 FT.		L = 10 FT.		L = 15 FT.		L = 10 FT.		L = 15 FT.	
				NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH	NO. REQ'D.	LENGTH
401	4	11"	II	15	15	21	18	26	21	11	11	11	11	11	11		
402	4	11"	II	7	15	13	18	18	7	7	7	7	7	7	7		
403	4	9"	II	7	15	7	15	18	7	7	7	7	7	7	7		
405	4	6"	VI	11	6'-10"	21	6'-10"	31	6'-10"	11	6'-10"	11	6'-10"	11	6'-10"		
406	4	6"	VIII	7	8'-10"	7	13'-10"	7	18'-10"	7	8'-10"	7	8'-10"	7	8'-10"		
407	4	9"	II	7	15	7	15	18	7	7	7	7	7	7	7		
408	4	12"	II	3	6'-10"	3	10'-10"	3	15'-10"	3	10'-10"	3	15'-10"	3	15'-10"		
409	4	8"	II	6	5'-10"	6	10'-10"	6	15'-10"	6	10'-10"	6	15'-10"	6	15'-10"		
410	4	11"	VII	3	10'-2"	3	10'-2"	3	10'-2"	3	10'-2"	3	10'-2"	3	10'-2"		
411	4	11"	II	3	6'-10"	3	10'-10"	3	15'-10"	3	6'-10"	3	10'-2"	3	10'-2"		
412	4	11"	II	3	6'-10"	3	10'-10"	3	15'-10"	3	6'-10"	3	10'-2"	3	10'-2"		
413	4	9"	II	7	15	7	15	18	7	7	7	7	7	7	7		
501	5	5/8"	IV	11	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"	33	3'-4"	22	3'-4"		
502	5	5/8"	III	11	3'-4"	11	3'-4"	17	3'-4"	11	3'-4"	17	3'-4"	11	3'-4"		
503	5	5/8"	II	5	3'-6"	16	3'-6"	27	3'-6"	6	3'-6"	6	3'-6"	5	8'-4"		
504	5	5/8"	IX	5	3'-6"	5	3'-6"	5	3'-6"	5	3'-6"	5	3'-6"	5	3'-6"		
601	6	2 1/2"	V	2	8'-10"	2	8'-10"	2	8'-10"	2	8'-10"	4	8'-10"	4	8'-10"		
REG. 5	1	5'-10"	1	5'-10"	1	10'-10"	1	15'-10"	1	10'-10"	1	15'-10"	1	15'-10"			

* VARIABLE REFER TO TABLE TWO.
 # INCLUDE #4, 18 IN. BARS (SEE CHANNEL LAYOUT).

TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

"H"	LENGTH	REGULAR		DROP BOX		L = 5 FT.		L = 10 FT.		L = 15 FT.	
		NO. REQ'D.	CONC. CU. YDS.	NO. REQ'D.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.	STEEL LBS.	CONC. CU. YDS.
3'-0"	2'-8"	1'-8"	10	7	3.2	285	5.3	497	7.4	706	
3'-6"	3'-2"	2'-2"	10	7	3.4	305	5.7	528	7.9	747	
4'-0"	3'-8"	2'-8"	12	9	3.7	326	6.0	559	8.4	786	
4'-6"	4'-2"	3'-2"	12	9	3.9	334	6.4	571	8.9	803	
5'-0"	4'-8"	3'-8"	14	11	4.1	354	6.7	602	9.3	844	
5'-6"	5'-2"	4'-2"	16	13	4.4	375	7.0	633	9.9	885	
6'-0"	5'-8"	4'-8"	18	15	4.8	402	7.4	671	10.7	934	
6'-6"	6'-2"	5'-2"	19	16	5.0	423	7.8	709	11.5	983	
7'-0"	6'-8"	5'-8"	20	17	5.3	443	8.2	747	12.3	1032	
7'-6"	7'-2"	6'-2"	20	17	5.5	460	8.6	785	13.1	1081	
8'-0"	7'-8"	6'-8"	22	19	5.8	481	9.0	823	13.9	1130	
8'-6"	8'-2"	7'-2"	24	21	6.2	503	9.4	861	14.7	1179	
9'-0"	8'-8"	7'-8"	24	21	6.6	527	9.8	899	15.5	1228	
9'-6"	9'-2"	8'-2"	26	23	7.0	551	10.2	937	16.3	1277	
10'-0"	9'-8"	8'-8"	28	25	7.4	575	10.6	975	17.1	1326	
10'-6"	10'-2"	9'-2"	29	26	7.8	600	11.0	1013	17.9	1375	
11'-0"	10'-8"	9'-8"	30	27	8.2	624	11.4	1051	18.7	1424	

NOTES: FOR L = 5 FT., L = 10 FT., AND L = 15 FT.
 REGULAR INLETS: TOTAL QUANTITIES NEEDED ARE OUTSIDE THE HEAVY BLACK LINE.
 DROP BOX INLETS: TOTAL QUANTITIES NEEDED ARE INSIDE THE HEAVY BLACK LINE.
 STEEL WEIGHTS DO NOT INCLUDE STRUCTURAL STEEL CHANNEL.

TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

Computer File Information Creation Date: 07/31/19 Designer Initials: JBK Last Modification Date: 07/31/19 Detailer Initials: LTA CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English	Sheet Revisions Date: _____ Comments: _____ Date: _____ Comments: _____ Date: _____ Comments: _____	Colorado Department of Transportation 2829 West Howard Place CDDT HQ, 3rd Floor Denver, CO 80204 Phone: 303-757-9021 FAX: 303-757-9866 Project Development Branch	<h2 style="text-align: center;">CURB INLET</h2> <h3 style="text-align: center;">TYPE R</h3> <p style="text-align: center;">Issued by the Project Development Branch July 31, 2019</p>	STANDARD PLAN NO. M-604-12 Standard Sheet No. 2 of 2 Project Sheet Number:
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#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

STORM DRAIN DETAILS

C5.4

PIPE INSTALLATION
(WITH 0.7 PROJECTION RATIO)

NOTE: Bc IS THE OUTSIDE DIMENSION FOR DIAMETER, SPAN OR RISE.

CIRCULAR (CR)			VERTICAL ELLIPTICAL (VE)			HORIZONTAL ELLIPTICAL (HE)						
PIPE SIZE - Bc (INSIDE DIA)	WALL THICKNESS	0.3 Bc (OUTSIDE DIA) FT.	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE FT.	SPAN	RISE	WALL THICKNESS	0.3 OUTSIDE RISE FT.		
12	2	0.40							23	14	2-3/4	0.49
15	2-1/4	0.49										
18	2-1/2	0.58										
21	2-3/4	0.66										
24	3	0.75										
27	3-1/4	0.84										
30	3-1/2	0.92										
33	3-3/4	1.01										
36	4	1.10										
42	4-1/2	1.28	34	53	5	1.58	53	34	5	1.10		
48	5	1.45	38	60	5-1/2	1.78	60	38	5-1/2	1.23		
54	5-1/2	1.62	43	68	6	2.00	68	43	6	1.38		
60	6	1.80	48	76	6-1/2	2.23	76	48	6-1/2	1.53		
66	6-1/2	1.97	53	83	7	2.43	83	53	7	1.68		
72	7	2.15	58	91	7-1/2	2.65	91	58	7-1/2	1.83		
78	7-1/2	2.32	63	98	8	2.85	98	63	8	1.98		
84	8	2.50	68	106	8-1/2	3.08	106	68	8-1/2	2.13		
90	8-1/2	2.68	72	113	9	3.28	113	72	9	2.25		
96	9	2.85	77	121	9-1/2	3.50	121	77	9-1/2	2.40		
102	9-1/2	3.02	82	129	9-3/4	3.69	129	82	9-3/4	2.54		
108	10	3.20	87	136	10	3.90	136	87	10	2.68		

△ ALSO EQUIVALENT ROUND DIMENSION FOR ELLIPTICAL PIPE.

GENERAL NOTES

REINFORCED CONCRETE PIPE

- FILL HEIGHTS GREATER THAN MAXIMUM ALLOWED IN THE HEIGHTS OF FILL TABLE ON THIS SHEET REQUIRE SPECIAL DESIGN OF STRUCTURE.
- PIPE DESIGN IS BASED ON SAFETY FACTOR OF 1.33 ON ULTIMATE STRENGTH.
- THE HEIGHTS OF FILL OVER TOP OF PIPE ARE BASED ON UNIT WEIGHT OF SOIL AT 135 LBS PER CUBIC FT.
- PIPE CLASS IS DETERMINED FROM 0.01 IN. CRACK D-L-LOAD.
- BEDDING IS CLASS B (MODIFIED) FROM CONCRETE PIPE DESIGN MANUAL - AMERICAN CONCRETE PIPE ASSOCIATION WITH SETTLEMENT RATIO R = 0.01 (YIELDING BED). BEDDING MATERIAL FOR RIGID PIPE IN SOIL SHALL BE 3 IN. LOOSE THICKNESS STRUCTURE BACKFILL CLASS 2. BEDDING MATERIAL FOR RIGID PIPE IN ROCK SHALL BE 12 IN. LOOSE THICKNESS STRUCTURE BACKFILL CLASS 1.
- CHANGES IN DESIGN FACTORS REQUIRE COMPENSATING CHANGES IN PIPE DESIGN.
- MINIMUM WALL THICKNESS DIMENSIONS ARE BASED ON ASHTO M 170 (WALL B) FOR CIRCULAR PIPE, AND ASHTO M 207 FOR ELLIPTICAL PIPE.
- SPACING FOR MULTIPLE PIPE INSTALLATIONS SHALL CONFORM TO THE DETAILS SHOWN ON STANDARD PLAN M-206-1.
- WHEN A PIPE IS TO BE EXTENDED, THE SAME PIPE MATERIAL AND SIZE AS IN THE ORIGINAL PIPE INSTALLATION SHALL BE USED.

NONREINFORCED CONCRETE PIPE

- AT THE OPTION OF THE CONTRACTOR, NONREINFORCED CONCRETE PIPE CONFORMING TO ASHTO M 86 MAY BE USED IN LIEU OF REINFORCED CONCRETE PIPE FOR ALL SIZES 36 INCHES IN DIAMETER AND SMALLER. THE NONREINFORCED CONCRETE PIPE SHALL MEET THE SAME D-LOAD TO PRODUCE THE ULTIMATE LOAD UNDER THE THREE-EDGE BEARING METHOD AS SPECIFIED FOR REINFORCED CONCRETE PIPE IN CONFORMANCE WITH ASHTO M 170. THE CONTRACTOR SHALL PROVIDE WRITTEN CERTIFICATION OF CONFORMANCE. THE WALL THICKNESS OF THE NONREINFORCED PIPE MAY BE INCREASED AS REQUIRED TO MEET D-LOAD REQUIREMENT.
- ALL REQUIREMENTS FOR REINFORCED CONCRETE PIPE, EXCEPT THOSE REFERRING TO REINFORCEMENT, SHALL APPLY TO NONREINFORCED CONCRETE PIPE.

DIMENSIONS FOR REINFORCED CONCRETE PIPE
(FOR INFORMATION ONLY)

H = HEIGHT OF FILL OVER TOP OF PIPE, INCLUDING PAVEMENT THICKNESS.
L1 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 624.
L2 = LENGTH OF PIPE TO BE MEASURED WHEN PLACED IN ACCORDANCE WITH SECTION 603.

NOTE: USE THE H THAT IS GREATER FOR MAXIMUM ALLOWABLE FILL HEIGHT.

CONSTRUCTION MINIMUM COVER FOR RIGID PIPE

TYPE OF PIPE	HEIGHT OF FILL OVER TOP OF PIPE, H (FEET)				
	CLASS OF PIPE (0.01 IN. CRACK D-LOAD)				
	CLASS CIR II	CLASS CIR III	CLASS CIR IV	CLASS CIR V	CLASS VE VI
CIRCULAR (CR)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	
VERTICAL ELLIPTICAL (VE)	1 TO 18	1 TO 25	± 25 TO 37	± 37 TO 45	± 45 TO 62
HORIZONTAL ELLIPTICAL (HE)	1 TO 18	1 TO 25	± 25 TO 37		

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Last Modification Date: 07/31/19
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Sheet Revisions

Date	Comments

Colorado Department of Transportation
2829 West Howard Place
CODOT HQ, 5th Floor
Denver, CO 80204
Phone: 303-757-9021 FAX: 303-757-9868

Project Development Branch **JBK**

REINFORCED CONCRETE PIPE

Issued by the Project Development Branch July 31, 2019

STANDARD PLAN NO.
M-603-2
Standard Sheet No. 1 of 1
Project Sheet Number:

TYPE 13 INLET FOR GUTTER TYPE 2

NOTE: WHEN 18A MATERIAL IS TO EXTEND TO THE EDGE OF THE GRATING FRAME, CONCRETE MAY BE DEPRESSED.

GENERAL NOTES

- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- CAST-IN-PLACE CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4 IN.
- REINFORCING BARS SHALL BE DEFORMED #4 AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT.-6 IN. AND SHALL CONFORM TO ASHTO M 199.
- ALL GRATES AND FRAMES SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06. GRATES AND FRAMES SHALL BE DESIGNED TO WITHSTAND 15 20 LOADINGS.
- STATION POINT IS AT THE CENTER OF THE INLET.
- GRATE SHALL HAVE "DUMP NO WASTE DRAINS TO STREAM" MESSAGE CAST ON SURFACE.

H	CONCRETE		REINFORCING STEEL		NO. OF 40# BARS REQ'D.	MAXIMUM PIPE I.D.	
	CONC.	YDS.	Ø LB.	FT.		SEC. A-A	SEC. B-B
3'-0"	1.3	72	4	18	4	18	18
3'-6"	1.5	76	4	24	4	24	18
4'-0"	1.6	90	5	30	5	30	18
4'-6"	1.8	104	6	30	6	30	18
5'-0"	1.9	109	6	30	6	30	18
5'-6"	2.1	122	7	30	7	30	18
6'-0"	2.2	136	8	30	8	30	18
6'-6"	2.4	141	8	30	8	30	18
7'-0"	2.5	154	9	30	9	30	18
7'-6"	2.7	168	10	30	10	30	18
8'-0"	2.8	173	10	30	10	30	18
8'-6"	3.0	187	11	30	11	30	18
9'-0"	3.1	200	12	30	12	30	18
9'-6"	3.3	205	12	30	12	30	18
10'-0"	3.4	219	13	30	13	30	18

Ø INCLUDES 12 FOR OVERRUN.
NOTE: CONCRETE QUANTITIES INCLUDE VOLUME OCCUPIED BY PIPE.

QUANTITIES FOR ONE INLET

MARK	NO. REQ'D.	DIMENSIONS		LENGTH
X	Y	Z	W	
401	4	3'-6"	2'-2"	13'-4"
402	2	3'-4 1/2"	* 2'-6 1/2"	8'-0 1/2"
403	5	2'-1/2"	* 2'-7"	7'-2 1/2"

* ADD 6 IN. TO THIS DIMENSION FOR EACH 6 IN. INCREASE OF "H" OVER 3 FT.-0 IN.

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Date	Comments

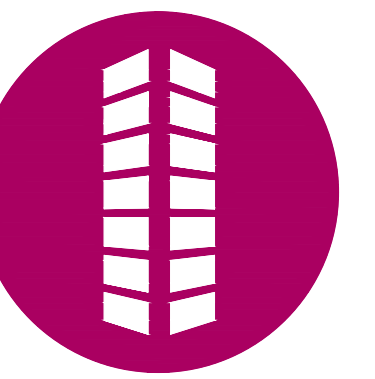
Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820

Project Development Branch **DD/LTA**

CONCRETE INLET TYPE 13

Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-13
Sheet No. 1 of 1



STEEL GRATE QUANTITIES

NO.	DESCRIPTION	LENGTH PER FT.	WEIGHT (LBS.)
4	S4 x 7.7 BEAM	41"	7.90
2	3 1/2" x 1/2" FLAT	26 1/4"	2.98
2	3" x 1/2" FLAT	26 1/4"	2.55
		TOTAL	13.43

QUANTITIES FOR ONE INLET

H	CONCRETE (CU. YDS.)	STEEL (LBS.)	NO. STEPS REQ'D.
2'-0"	1.0	76	0
3'-0"	1.1	81	0
3'-6"	1.2	87	0
4'-0"	1.3	102	1
4'-6"	1.5	117	2
5'-0"	1.6	123	2
5'-6"	1.7	138	2
6'-0"	1.9	143	3
6'-6"	2.0	159	3
7'-0"	2.1	184	3
7'-6"	2.2	190	4
8'-0"	2.4	185	4
8'-6"	2.5	200	4
9'-0"	2.6	206	5
9'-6"	2.8	221	5
10'-0"	2.9	236	6
11'-0"	3.3	252	6

INLET WITH DITCH PAVING

SECTION B-B
INLET CONNECTED TO A CROSS PIPE

SECTION A-A
INLET ON GRADE (FLOW FROM ONE DIRECTION)

SECTION A-A
INLET AT BOTTOM OF VERTICAL CURVE (FLOW FROM TWO DIRECTIONS)

SECTION B-B
INLET CONNECTED TO A SKEWED CROSS PIPE

CONCRETE INLET

ELEVATION

STANDARD INLET GRATE

SECTION E-E
CLOSE MESH INLET GRATE

GENERAL NOTES

- INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
- CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
- REINFORCING BARS SHALL BE GRADE 60, EPOXY COATED, AND DEFORMED #4, AND SHALL HAVE A MIN. 2 INCH CLEARANCE, CUT OR BEND AROUND PIPES AS REQUIRED.
- CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507, REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W14 X W14 OR 6 X 6 - W21 X W21.
- STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
- THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH INLET GRATES ARE SPECIFIED ON THE PLANS.
- CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
- STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FEET - 6 INCHES AND SHALL CONFORM TO ASHTO M 199.
- SEE STANDARD PLAN M-604-1I, FOR REINFORCEMENT AROUND THE PIPE OPENING.
- ALL INLETS SHALL HAVE A 4 INCH DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

BAR LIST FOR H = 2 FT. - 6 IN. AND BENDING DIAGRAM

MARK	NO.	HEIGHT	LENGTH
401	2	2'-2 1/2"	8'-0"
401	6	2'-7"	8'-8"
402	4	10"	15'-4"

Computer File Information		Sheet Revisions		Colorado Department of Transportation		STANDARD PLAN NO.	
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Last Modification Date: 07/31/19	Detailer Initials: LTA			3007 HQ, 3rd Floor			Standard Sheet No. 1 of 1
CAD Ver.: MicroStation V8	Scale: Not to Scale			Denver, CO 80204			Project Sheet Number:
	Units: English			Phone: 303-757-9021	Project Development Branch JDK		
				FAX: 303-757-9868	Issued by the Project Development Branch July 31, 2019		

Meridian Storage, LLC, 19 Pine County, MN - Designed by Galloway Construction, LLC. 19 Pine County, MN - Designed by Galloway Construction, LLC. 19 Pine County, MN - Designed by Galloway Construction, LLC. 19 Pine County, MN - Designed by Galloway Construction, LLC.

#	Date	Issue / Description	Init.

Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	PUB

STORM DRAIN DETAILS

SITE LEGEND

- PROJECT BOUNDARY LINE
- ADJACENT PROPERTY BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING ADJACENT LOT LINE
- PROPOSED LOT LINE
- EXISTING EASEMENT LINE
- PROPOSED EASEMENT LINE
- PROPOSED ROAD CENTERLINE
- EXISTING ROAD CENTERLINE
- PROPOSED RIDGE LINE
- PROPOSED SWALE LINE
- EXISTING SWALE LINE
- 100YR FLOODPLAIN BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING GUARDRAIL
- PROPOSED CURB AND GUTTER
- EXISTING CURB AND GUTTER
- EXISTING EDGE OF ASPHALT
- PROPOSED SIDEWALK
- PROPOSED TRAIL
- PROPOSED GRAVEL PER EOM TABLE D-7
- RRAP OUTFALL PADS
- EXISTING SIGN
- PROPOSED SIGN
- PROPOSED BOLLARDS

GRADING LEGEND

- 5460 --- EXISTING MAJOR CONTOUR
- 52 --- EXISTING MINOR CONTOUR
- 5465 --- PROPOSED MAJOR CONTOUR
- 55 --- PROPOSED MINOR CONTOUR
- 2.00% --- EXISTING SLOPE - PERCENT
- 4:1 --- EXISTING SLOPE - RISE/RUN
- 2.00% --- PROPOSED SLOPE - PERCENT
- 4:1 --- PROPOSED SLOPE - RISE/RUN
- 89.00 HP --- PROPOSED SPOT ELEVATION - HIGH POINT
- 89.00 LP --- PROPOSED SPOT ELEVATION - LOW POINT
- 89.00 TOB --- PROPOSED SPOT ELEVATION - TOP OF BERM
- 89.00 FL --- PROPOSED SPOT ELEVATION - FLOW LINE
- 89.00 TG --- PROPOSED SPOT ELEVATION - TOP OF GRATE
- 89.00 FG --- PROPOSED SPOT ELEVATION - FINISHED GRADE
- 89.00 SW --- PROPOSED SPOT ELEVATION - SIDEWALK
- 89.00 EOC --- PROPOSED SPOT ELEVATION - EDGE OF CONCRETE
- 89.00 EOA --- PROPOSED SPOT ELEVATION - EDGE OF ASPHALT
- 89.00 ME --- PROPOSED SPOT ELEVATION - MATCH EXISTING

UTILITY LEGEND

- EXISTING WATER LINE
- PROPOSED WATER LINE
- EXISTING SANITARY SEWER
- PROPOSED SANITARY SEWER
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING GAS LINE
- PROPOSED GAS LINE
- EXISTING UNDERGROUND TELEPHONE
- EXISTING OVERHEAD ELECTRIC
- EXISTING FIBER OPTIC LINE
- EXISTING FIBER OPTIC STRUCTURES
- EXISTING TELEPHONE PEDESTAL
- EXISTING ELECTRIC TRANSFORMER
- EXISTING POWER POLE
- EXISTING STREET LIGHT
- PROPOSED STREET LIGHT
- PROPOSED WATER METER
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- PROPOSED STORM SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- PROPOSED SANITARY SEWER MANHOLE

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE PLANE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964", NAVD88 ELEVATION = 6947.67

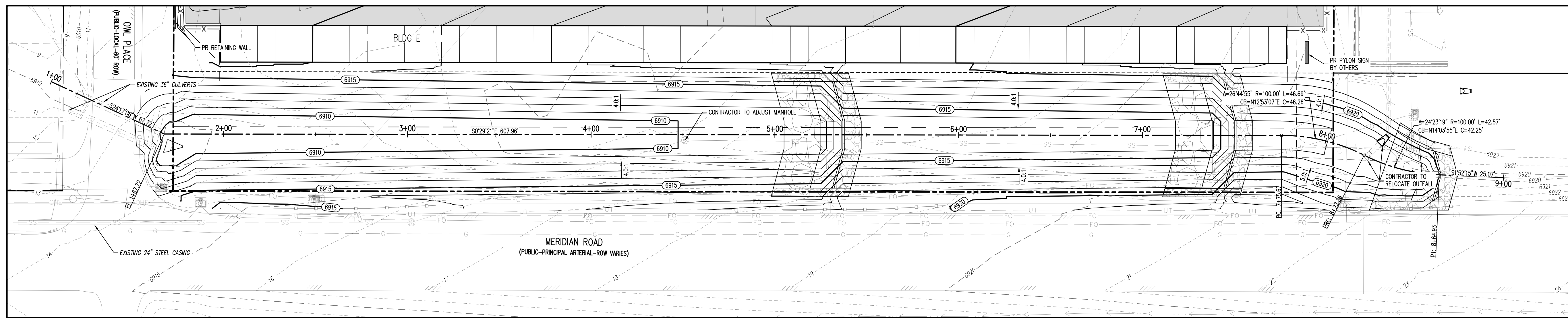
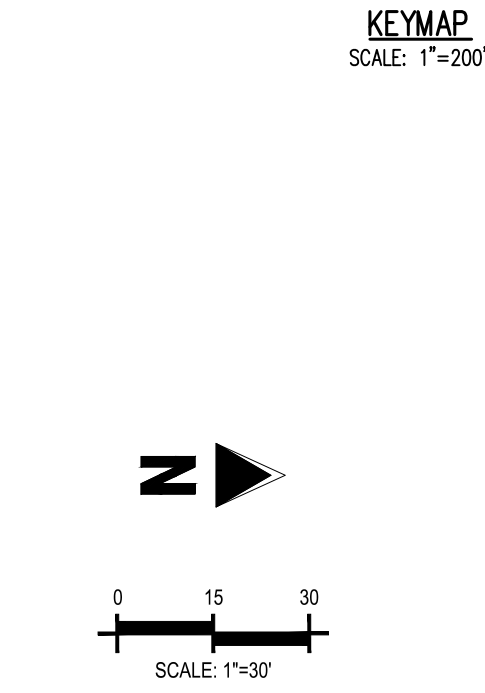
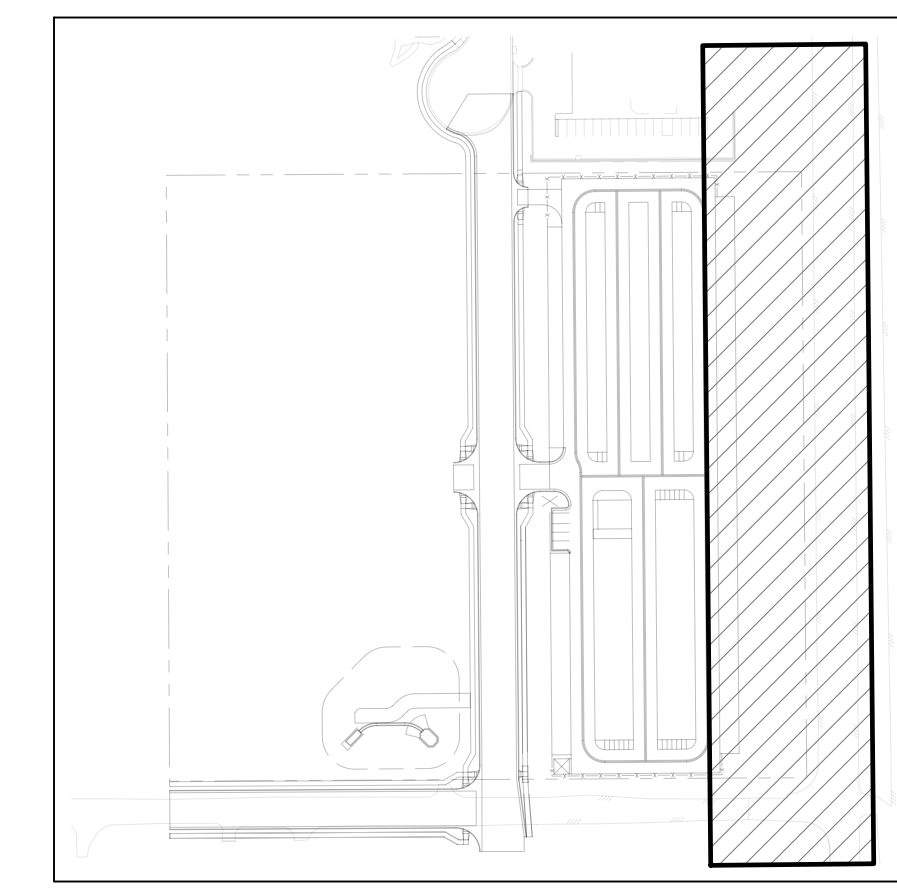
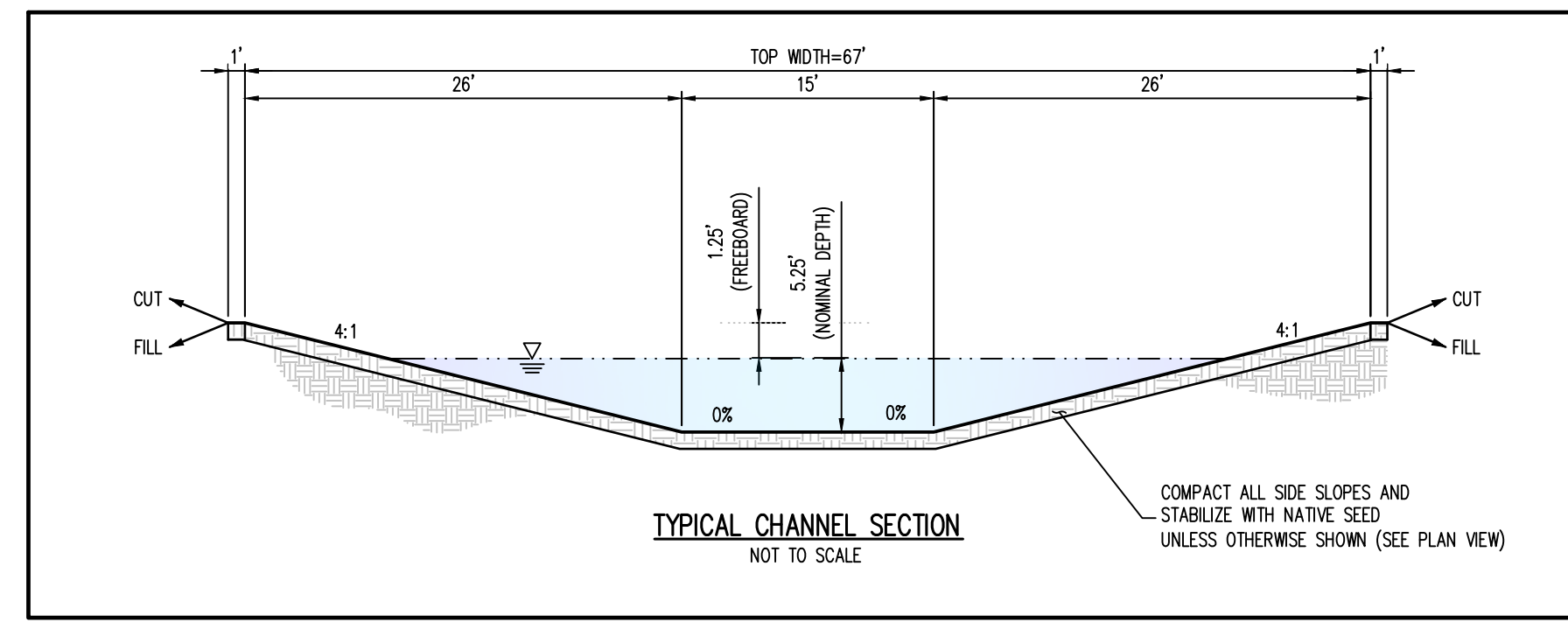
NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

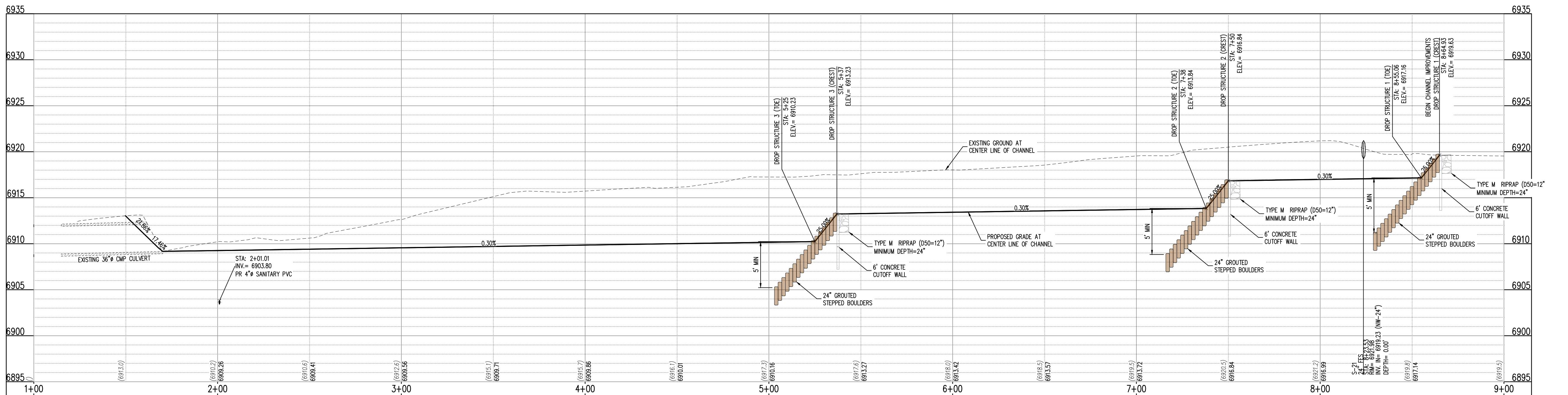
CAUTION - NOTICE TO CONTRACTOR

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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



CHANNEL PLAN
SCALE: 1"=30'



CHANNEL PROFILE (STA: 1+00 - 9+00)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

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CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
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SF-23-XXX

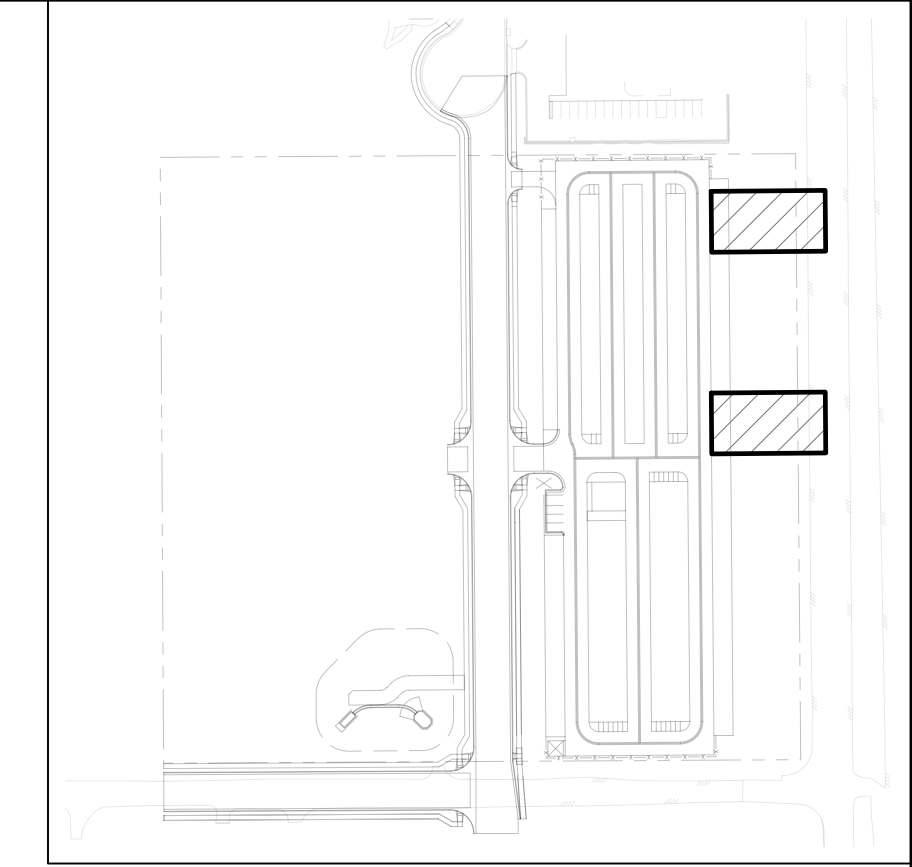
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

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Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: PUB

CHANNEL PLAN & PROFILE

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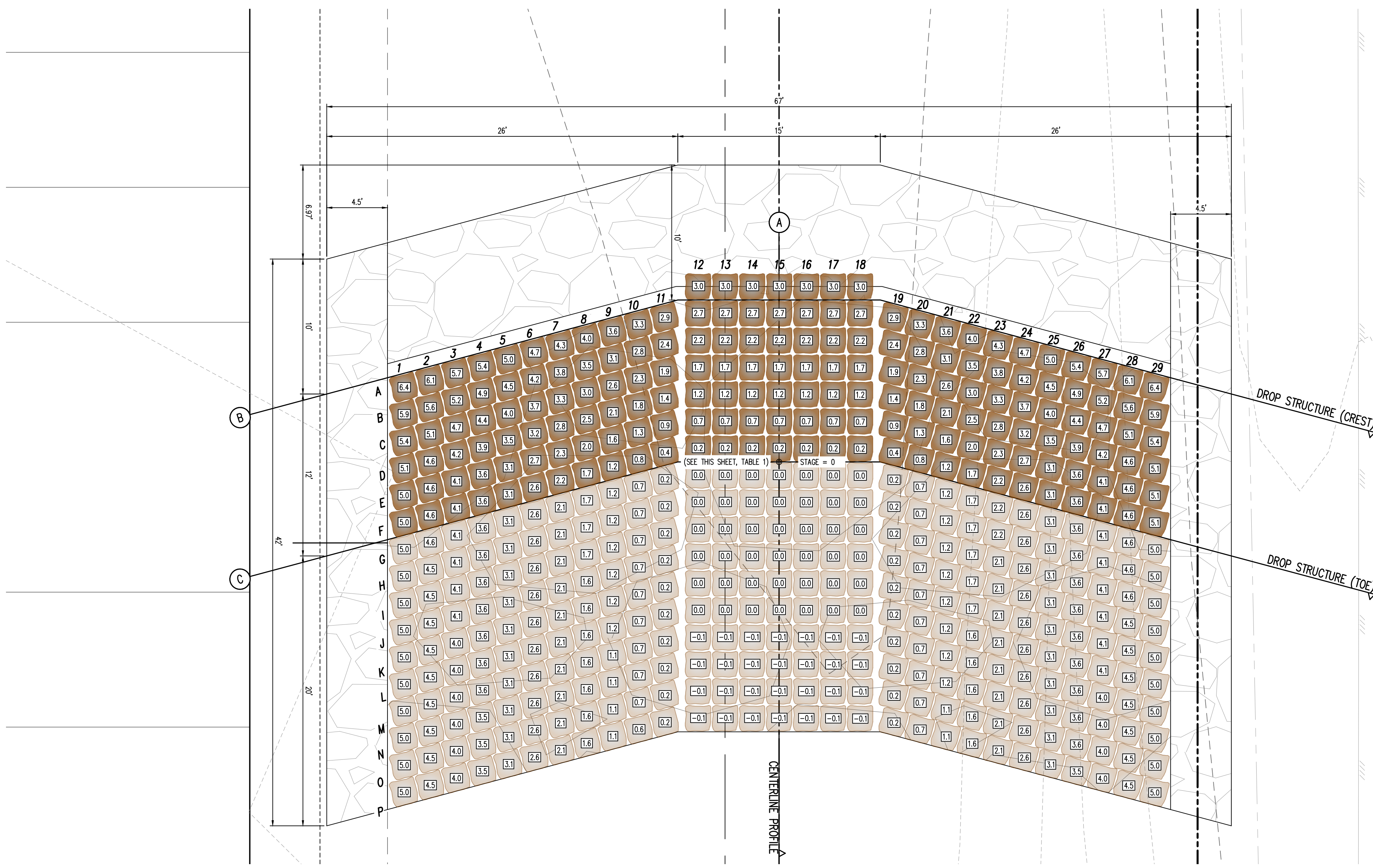


KEYMAP
SCALE: 1\"/>

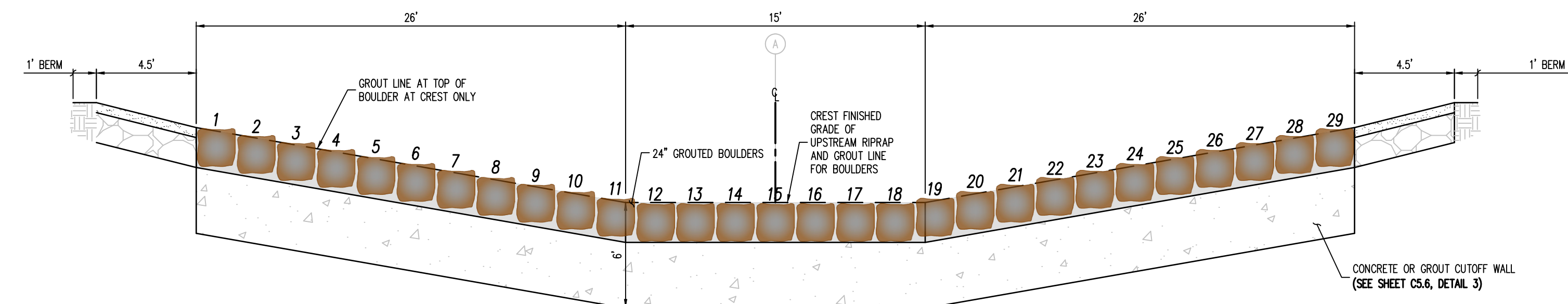
DROP STRUCTURE #2	6913.85
DROP STRUCTURE #3	6910.24
NOTE: STAGE=0 IS LOCATED AT THE TOE OF CHANNEL ALONG THE CENTER LINE ALIGNMENT, CONTRACTOR SHALL ENSURE ELEVATIONS ABOVE MATCH THE ELEVATIONS SHOWN ON PLAN & PROFILE SHEETS (06.1)	

NOTES:

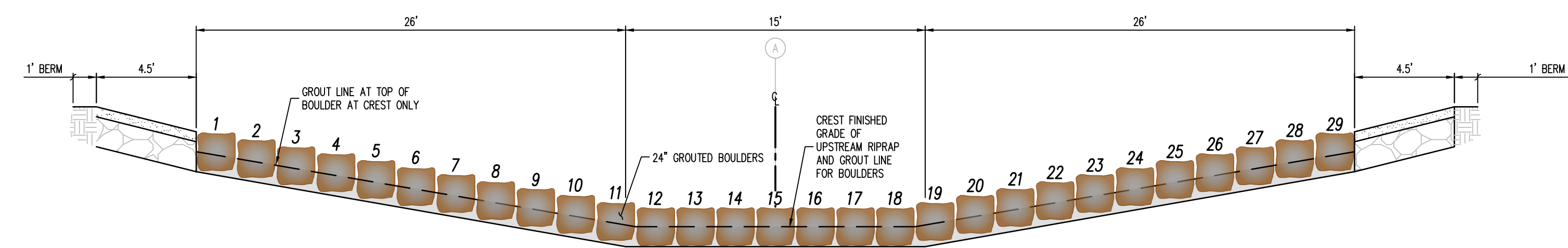
1. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
2. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.
3. DUE TO VARIABILITY IN BOULDER SIZES, THE LAYOUT PROVIDED ON THIS DETAIL MAY NOT MATCH THE COMPLETED LAYOUT IN CONSTRUCTION.
4. REFER TO SHEET C7.3 FOR ADDITIONAL GROUTED BOULDER PLACEMENT NOTES AND SPECIFICATIONS.



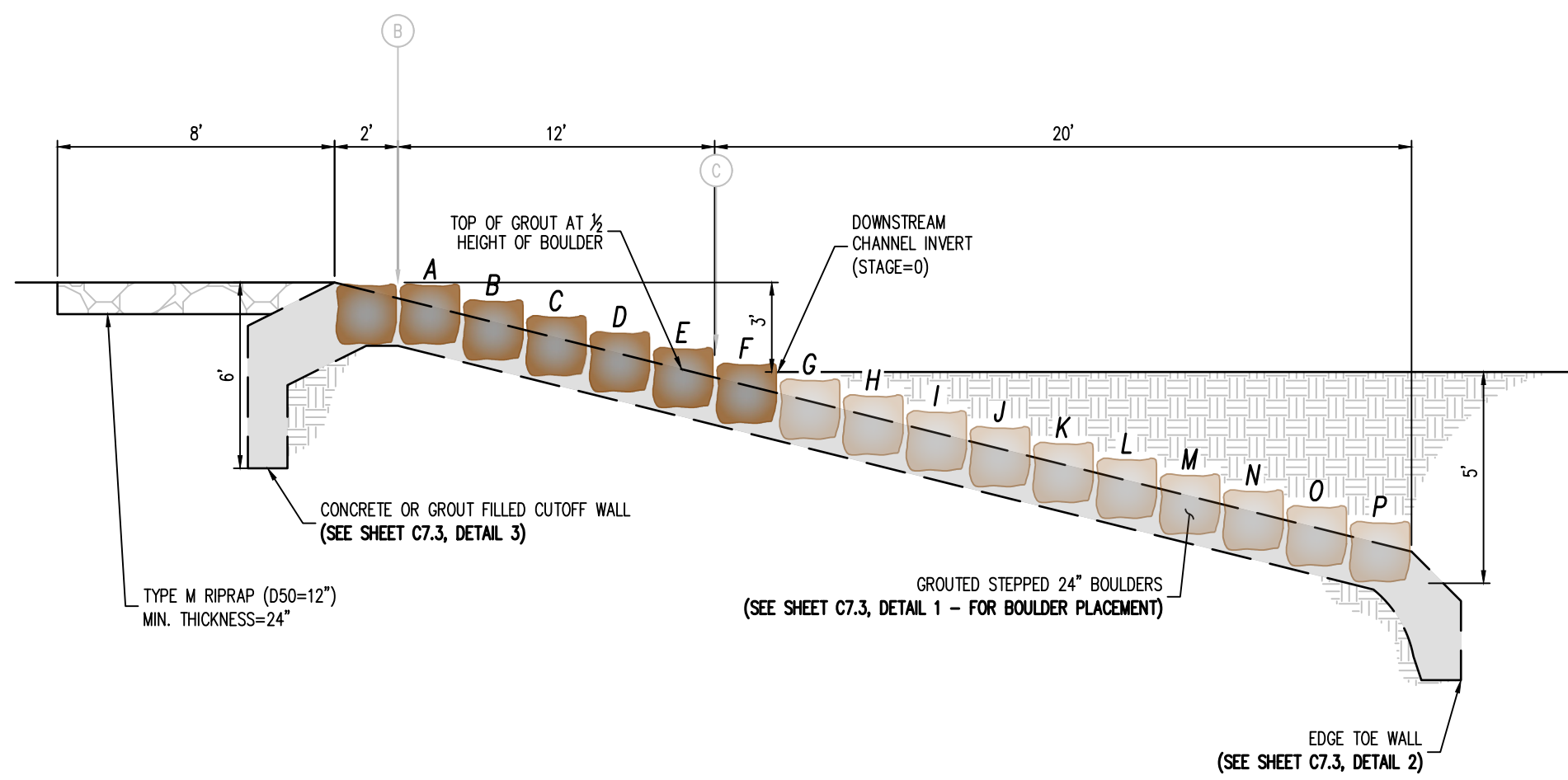
① DROP STRUCTURE (#1, #3, #6) – PLAN VIEW
SCALE: 1\"/>



③ DROP STRUCTURE (#2, #3) – PROFILE VIEW (SECTION B)
NOT TO SCALE



④ DROP STRUCTURE (#2, #3) – PROFILE VIEW (SECTION C)
NOT TO SCALE



② DROP STRUCTURE (#2, #3) – PROFILE VIEW (SECTION A)
NOT TO SCALE

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CONSTRUCTION DRAWINGS
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STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
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DROP STRUCTURE 2 & 3
DETAILS



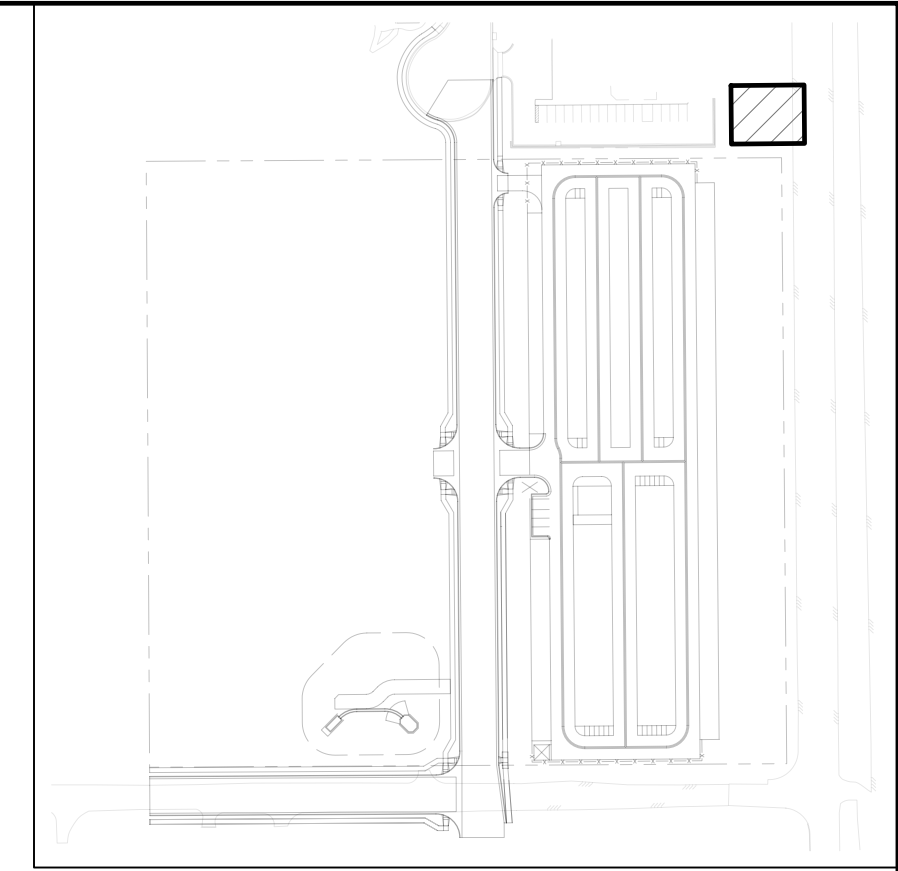
CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

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Project No: MRS01
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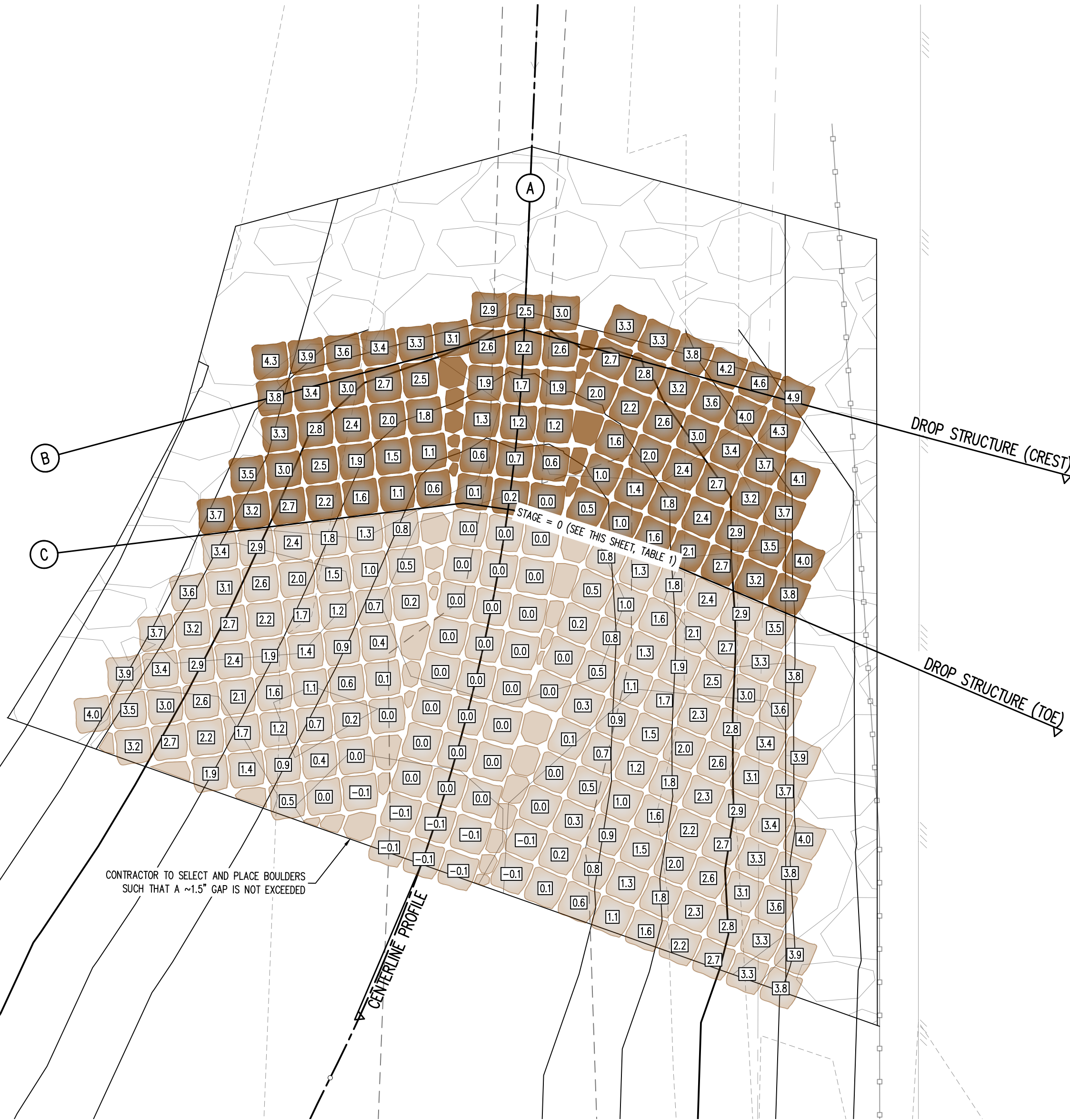
DROP STRUCTURE 1
 DETAILS



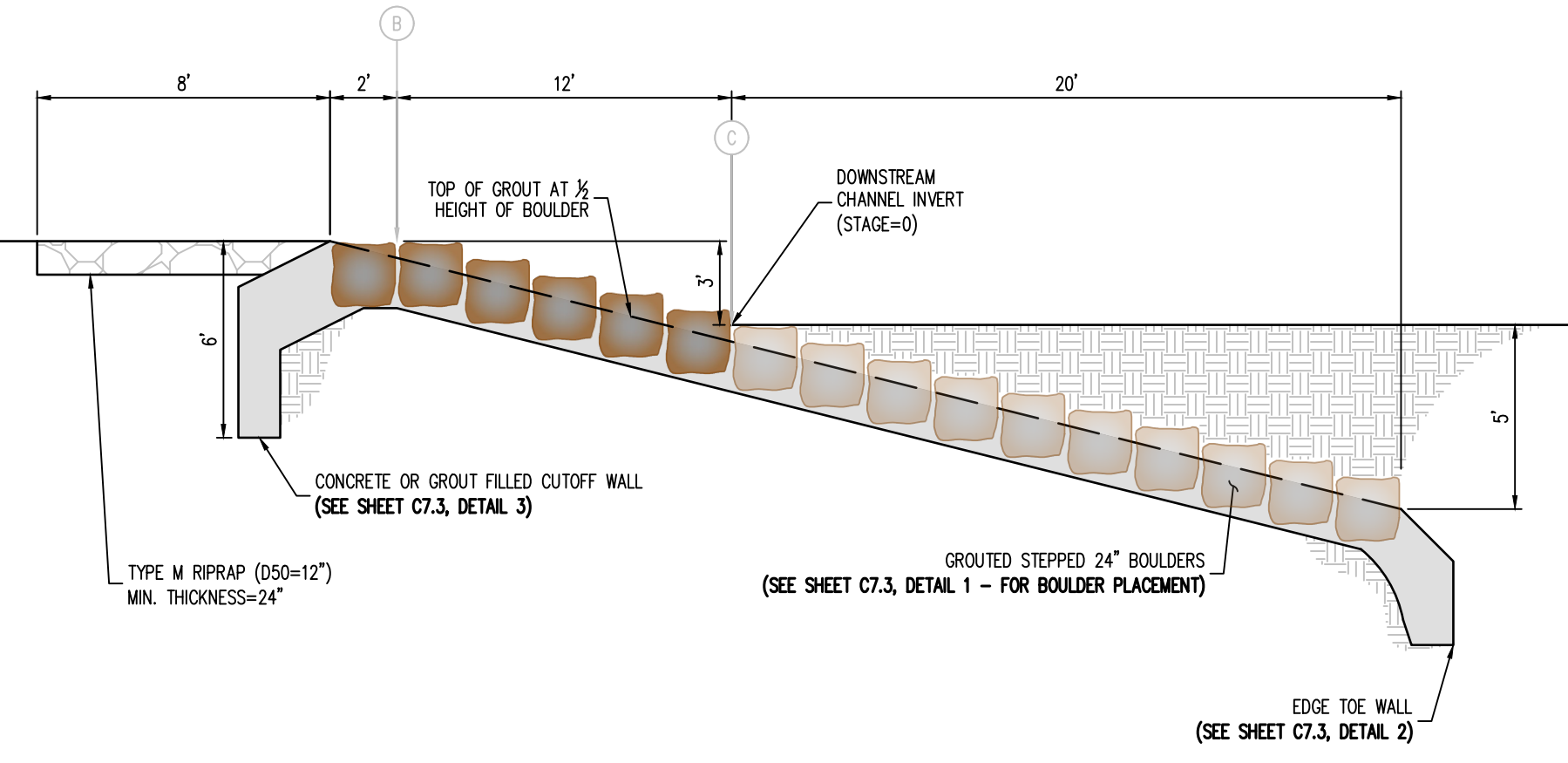
DROP STRUCTURE #1	6917.16
NOTE: STAGE=0 IS LOCATED AT THE TOE OF CHANNEL ALONG THE CENTER LINE ALIGNMENT. CONTRACTOR SHALL ENSURE ELEVATIONS ABOVE MATCH THE ELEVATIONS SHOWN ON PLAN & PROFILE SHEETS (C4.1-C4.4)	

NOTES:

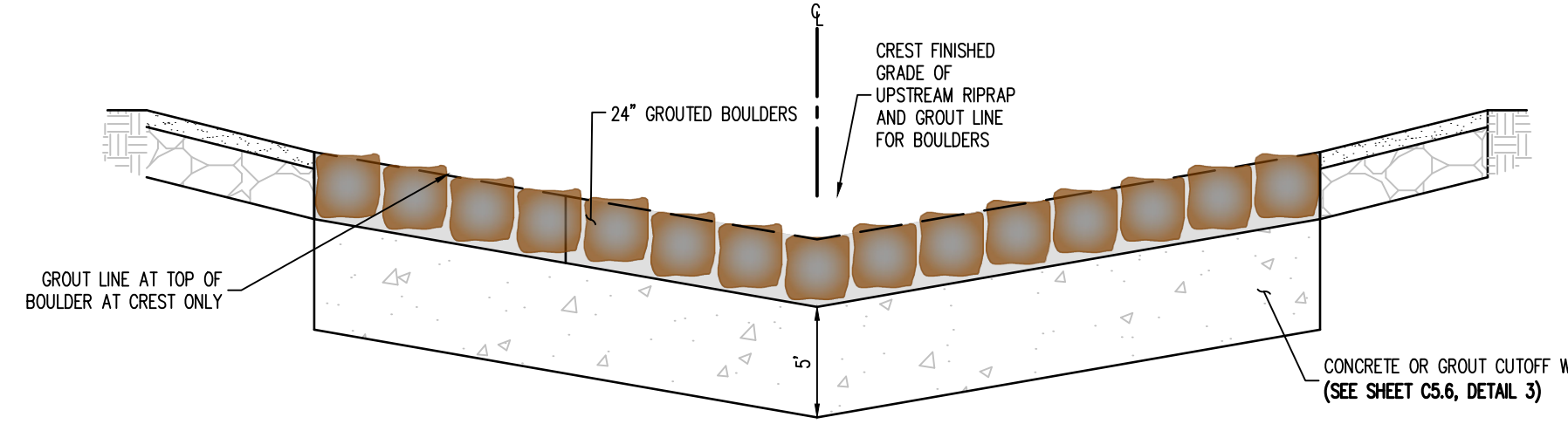
- PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2X4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
- BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLOING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.
- DUE TO VARIABILITY IN BOULDER SIZES, THE LAYOUT PROVIDED ON THIS DETAIL MAY NOT MATCH THE COMPLETED LAYOUT IN CONSTRUCTION.
- REFER TO SHEET C5.6 FOR ADDITIONAL GROUTED BOULDER PLACEMENT NOTES AND SPECIFICATIONS.



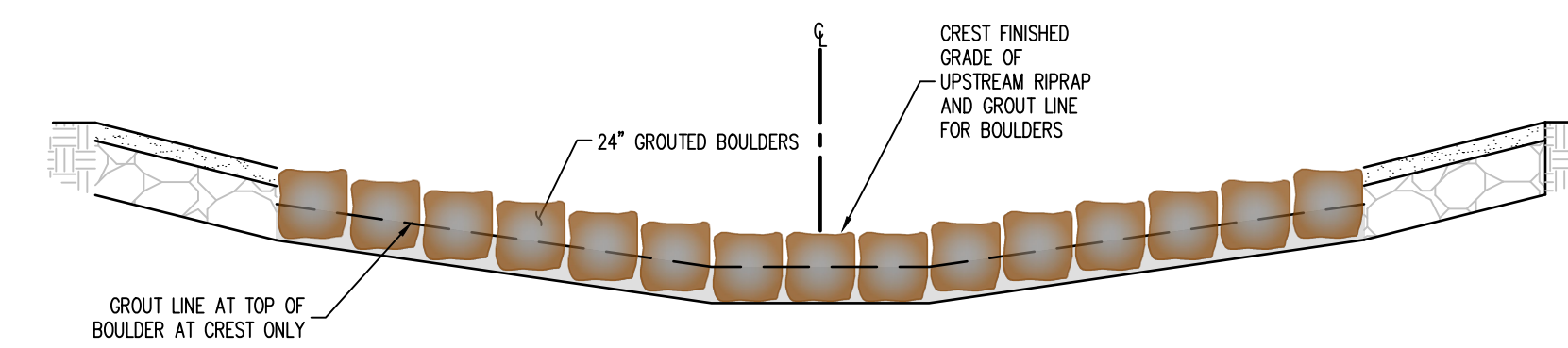
1 DROP STRUCTURE (#1) - PLAN VIEW
 SCALE: 1"=5'



2 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION A)
 NOT TO SCALE

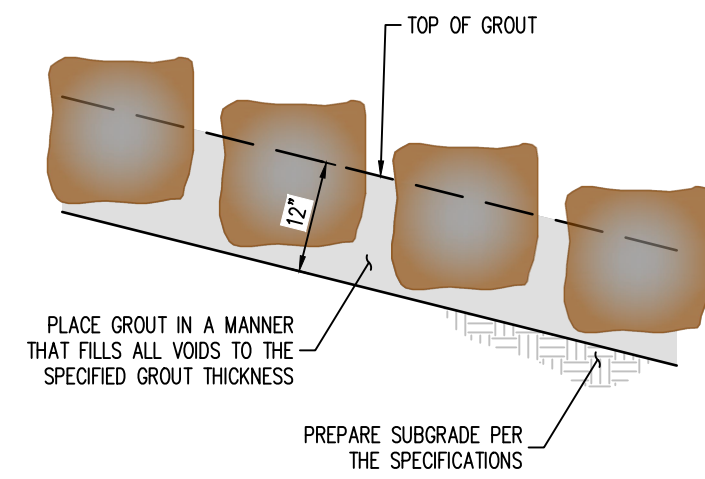


3 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION B)
 NOT TO SCALE



4 DROP STRUCTURE (#1) - PROFILE VIEW (SECTION C)
 NOT TO SCALE

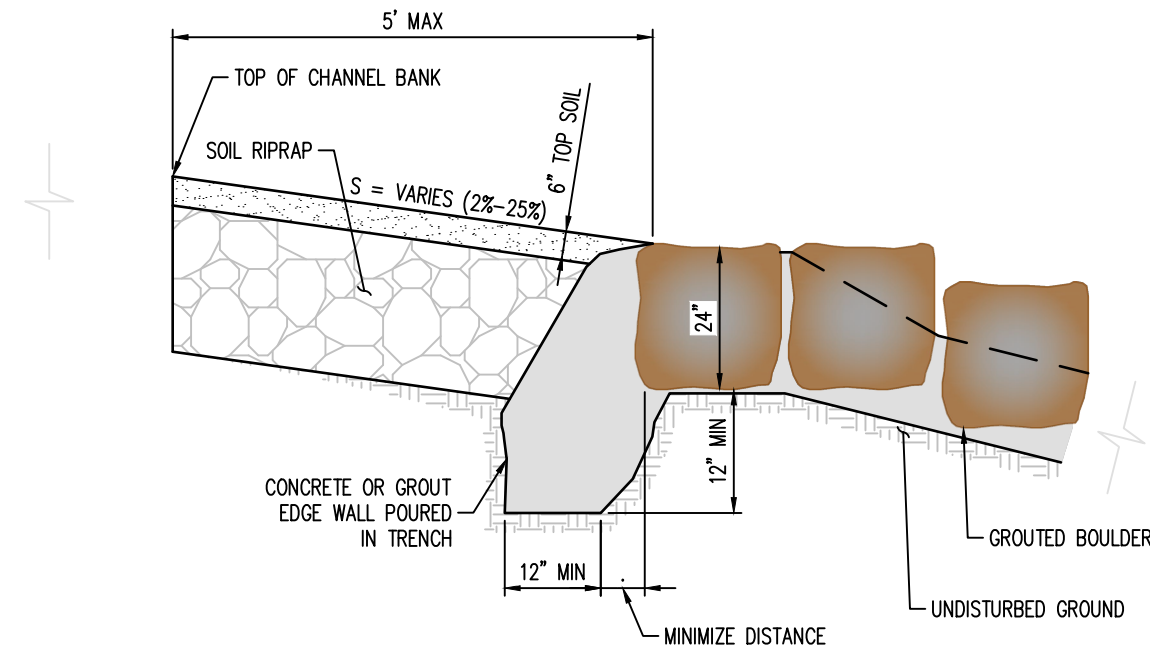
1 GROUTED BOULDER PLACEMENT DETAIL
NOT TO SCALE



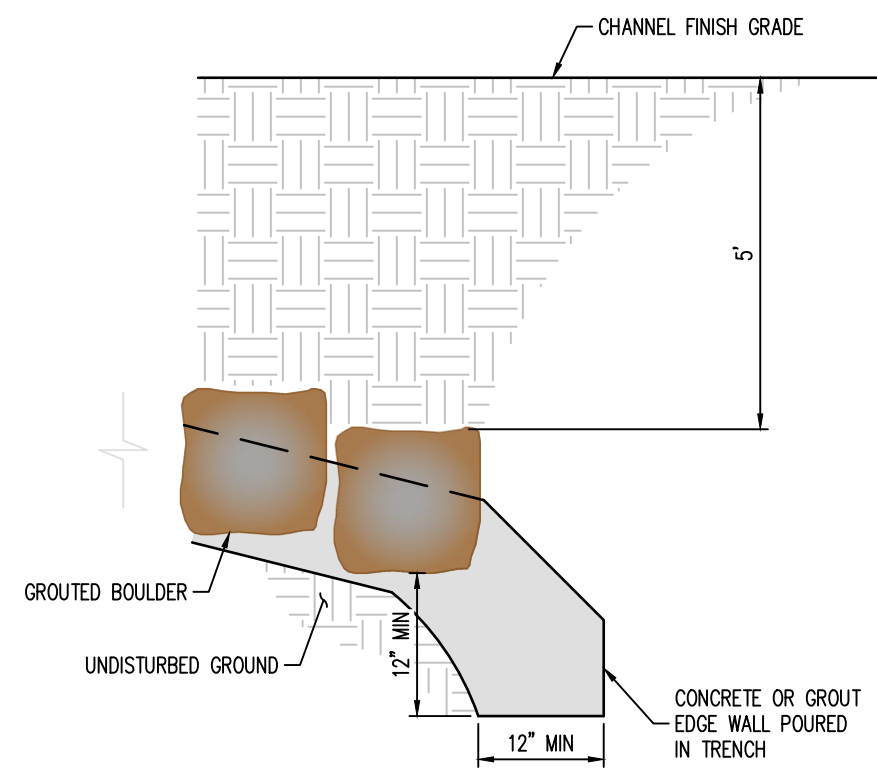
- BOULDER PLACEMENT NOTES:**
1. PLACE BOULDERS WITH THE REQUIRED BOULDER HEIGHT VERTICAL. PLACE BOULDERS AS TIGHTLY TOGETHER AS POSSIBLE (WITHOUT TOUCHING) WHILE PROVIDING ENOUGH ROOM BETWEEN THEM TO THOROUGHLY VIBRATE THE GROUT AND TO ENSURE NO GAPS IN THE GROUT. THE SMALL DIMENSION OF A 2x4 CAN BE USED AS A GUIDE TO CHECK MINIMUM SPACING.
 2. BEFORE GROUTING, CLEAN ALL DIRT AND MATERIAL FROM ROCK THAT COULD PREVENT THE GROUT FROM BINDING TO THE ROCK. KEEP BOULDERS FROM TOUCHING. AVOID SLIDING BOULDERS AGAINST SUBGRADE TO PROPERLY POSITION.

- MATERIAL SPECIFICATIONS:**
1. ALL GROUT SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH EQUAL TO 3200 PSI.
 2. ONE CUBIC YARD OF GROUT SHALL HAVE A MINIMUM OF SIX (6) SACKS OF TYPE II PORTLAND CEMENT.
 3. A MAXIMUM OF 25% TYPE F FLY ASH MAY BE SUBSTITUTED FOR THE PORTLAND CEMENT.
 4. THE AGGREGATE SHALL BE COMPRISED OF 70% NATURAL SAND (FINES) AND 30% 3/8" ROCK (COARSE).
 5. THE GROUT SLUMP SHALL BE BETWEEN 4-INCHES TO 6-INCHES.
 6. AIR ENTRAINMENT SHALL BE BETWEEN 5.5% AND 7.5%.
 7. TO CONTROL SHRINKAGE AND CRACKING, 1.5 POUNDS OF FIBERMESH, OR EQUIVALENT, SHALL BE USED PER CUBIC YARD OF GROUT.
 8. COLOR ADDITIVE IN REQUIRED AMOUNTS SHALL BE USED WHEN SO SPECIFIED BY CONTRACT.

- GROUT PLACEMENT SPECIFICATIONS:**
1. SPECIAL PROCEDURES SHALL BE REQUIRED FOR GROUT PLACEMENT WHEN THE AIR TEMPERATURES ARE LESS THAN 40°F OR GREATER THAN 90°F. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM THE DESIGN ENGINEER OF THE PROCEDURES TO BE USED FOR PROTECTING THE GROUT.
 2. GROUT SHALL BE DELIVERED BY MEANS OF A LOW PRESSURE (LESS THAN 10 PSI) GROUT PUMP USING A 2-INCH DIAMETER (MAXIMUM) NOZZLE.
 3. FULL DEPTH PENETRATION OF THE GROUT INTO THE BOULDER VOIDS SHALL BE ACHIEVED BY INJECTING GROUT STARTING WITH THE NOZZLE NEAR THE BOTTOM AND RAISING IT AS THE GROUT FILLS, WHILE VIBRATING GROUT INTO PLACE USING A FENCIL VIBRATOR.
 4. ALL GROUT BETWEEN BOULDERS SHALL BE TREATED WITH A BROOM FINISH.
 5. AFTER GROUT PLACEMENT, EXPOSED BOULDER FACES SHALL BE CLEANED AND FREE OF GROUT.
 6. ALL FINISHED GROUT SURFACES SHALL BE SPRAYED WITH A CLEAR LIQUID MEMBRANE CURING COMPOUND AS SPECIFIED IN ASTM C309.

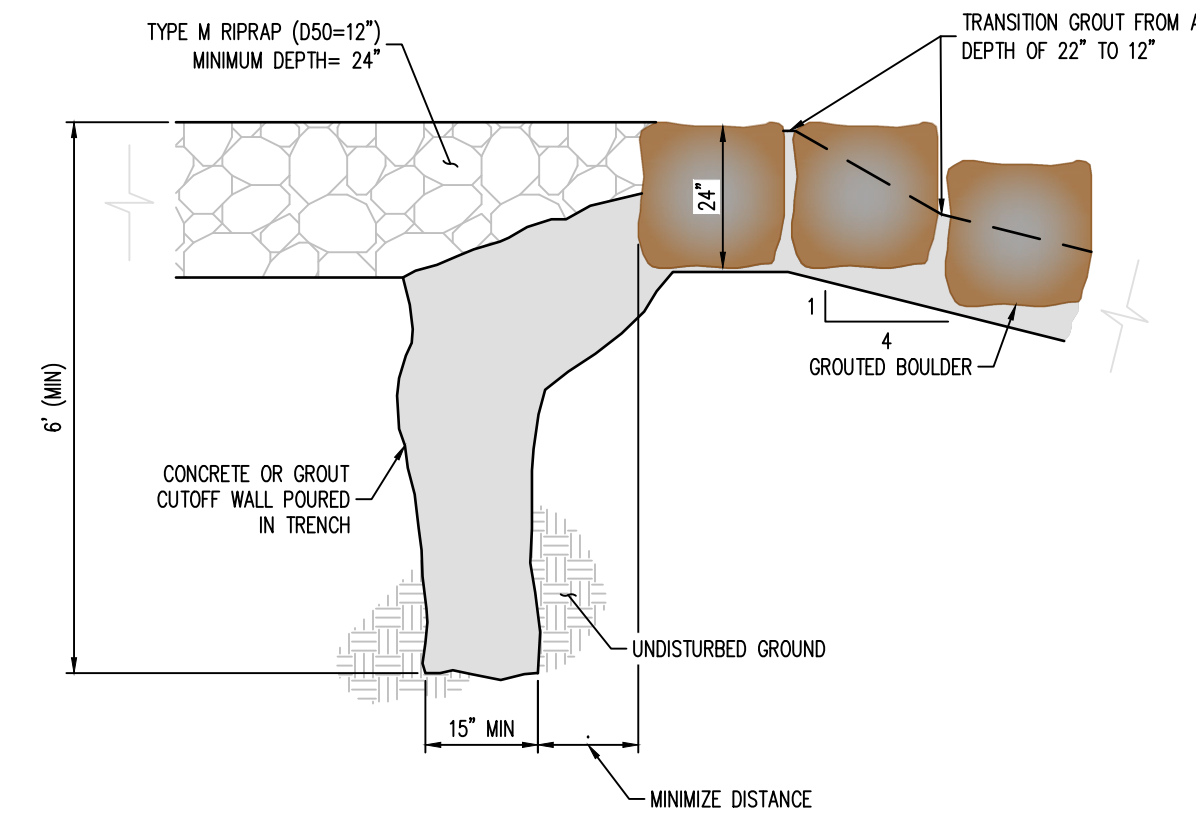


EDGE SIDE WALL DETAIL



EDGE TOE WALL DETAIL

2 EDGE WALL DETAIL
NOT TO SCALE



3 CUT-OFF WALL DETAIL
NOT TO SCALE

SOIL RIPRAP SPECIFICATIONS:

1. CONTRACTOR SHALL EXCAVATE AREAS TO RECEIVE SOIL RIPRAP TO THE SPECIFIED DEPTH.
2. SUBGRADE SHOULD BE COMPACTED TO NINETY-FIVE PERCENT (95%) MAXIMUM DENSITY.
3. NO BEDDING MATERIAL IS REQUIRED FOR SOIL RIPRAP.
4. RIPRAP SHALL BE PLACED ON THE PREPARED SLOPE OR CHANNEL BOTTOM AREAS IN A MANNER WHICH WILL PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICABLE PERCENTAGE OF VOIDS.
5. RIPRAP SHALL BE MACHINE PLACED.
6. IT IS THE INTENT OF THESE SPECIFICATIONS TO PRODUCE A FAIRLY COMPACT RIPRAP PROTECTION IN WHICH ALL SIZES OF MATERIAL ARE PLACED IN THEIR PROPER PROPORTIONS.
7. WHEN RIPRAP IS PLACED ON SLOPE, PLACEMENT SHALL COMMENCE AT THE BOTTOM OF THE SLOPE WORKING UP THE SLOPE.
8. ALL MATERIAL USED FOR RIPRAP PROTECTION FOR CHANNEL SLOPE OR BOTTOM SHALL BE PLACED AND DISTRIBUTED SUCH THAT THERE SHALL BE NO LARGE ACCUMULATIONS OF EITHER THE LARGER OR SMALLER SIZES OF STONE. SOME HAND PLACEMENT MAY BE REQUIRED TO ACHIEVE THIS DISTRIBUTION.
9. SMALLER ROCK SHALL BE SECURELY LOCKED BETWEEN THE LARGER STONE. IT IS ESSENTIAL THAT THE MATERIAL BETWEEN THE LARGER STONES NOT BE LOOSE OR EASILY DISPLACED BY FLOW.
10. THE SOIL MATERIAL SHALL BE NATIVE OR TOPSOIL AND MIXED WITH SIXTY-FIVE PERCENT (65%) RIPRAP AND THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME.
11. SOIL RIPRAP SHALL CONSIST OF A UNIFORM MIXTURE OF SOIL AND RIPRAP WITHOUT VOIDS.
12. SOIL RIPRAP SHALL BE FREE OF BRUSH, TREES, STUMPS, AND OTHER OBJECTIONABLE MATERIAL AND BE GRADED TO A SMOOTH COMPACTED SURFACE.
13. MIXING OF SOIL AND RIPRAP SHOULD BE DONE AT THE STOCKPILE LOCATION, NOT AT THE LOCATION WHERE SOIL RIPRAP IS TO BE PLACED.
14. MIX THIRTY-FIVE PERCENT (35%) SOIL BY VOLUME WITH STOCKPILED RIPRAP, USING ADDITIONAL MOISTURE AND CONTROL PROCEDURES THAT ENSURE A HOMOGENEOUS MIXTURE, WHERE THE SOIL FILLS THE INHERENT VOIDS IN THE RIPRAP WITHOUT DISPLACING RIPRAP. LAYERING THE RIPRAP AND SOIL INSTEAD OF PREMIXING MAY BE ALLOWED IF THE NATIVE SOIL IS GRANULAR.
15. PLACE A FIRST LAYER OF SMALLER SOIL RIPRAP OF APPROXIMATE D50 THICKNESS. THEN PLACE THE TOP LAYER WITH THE SURFACE ROCKS THAT ARE LARGELY D50 OR GREATER, FILLING VOIDS AS NECESSARY WITH THE SMALLER PLANTED RIPRAP.
16. THE MIXTURE SHALL BE CONSOLIDATED BY LARGE VIBRATORY EQUIPMENT OR BACKHOE BUCKET TO CREATE A TIGHT, DENSE INTERLOCKING MASS.
17. THE SOIL SHALL BE FURTHER WETTED TO ENCOURAGE VOID FILLING WITH SOIL.
18. ANY LARGE VOIDS SHALL BE FILLED WITH ROCK AND SMALL VOIDS FILLED WITH SOIL.
19. THE TOP SURFACE SHALL BE COVERED WITH FOUR (4) INCHES OF TOPSOIL SUCH THAT NO ROCK POINTS ARE PROTRUDING.
20. THE FINAL SURFACE SHALL BE THOROUGHLY WETTED FOR GOOD COMPACTION, SMOOTHED AND COMPACTED BY VIBRATING EQUIPMENT.

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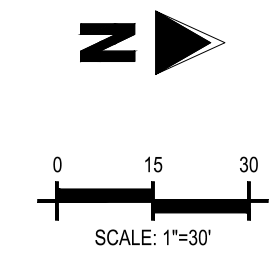
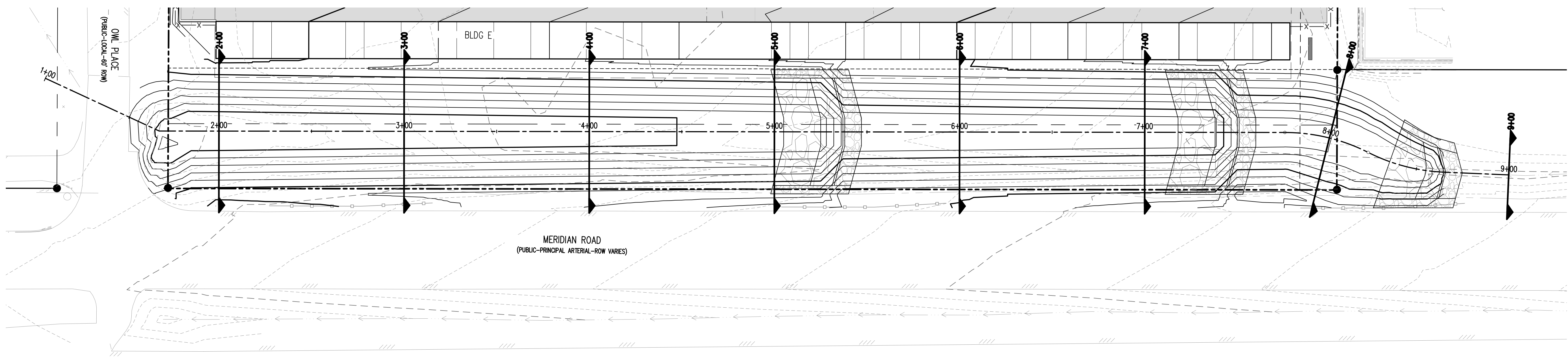
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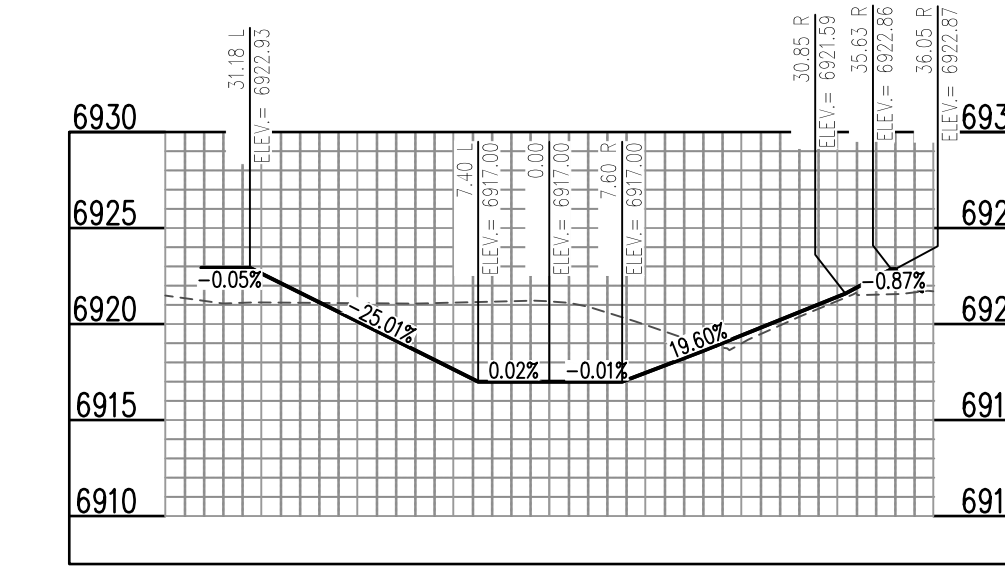
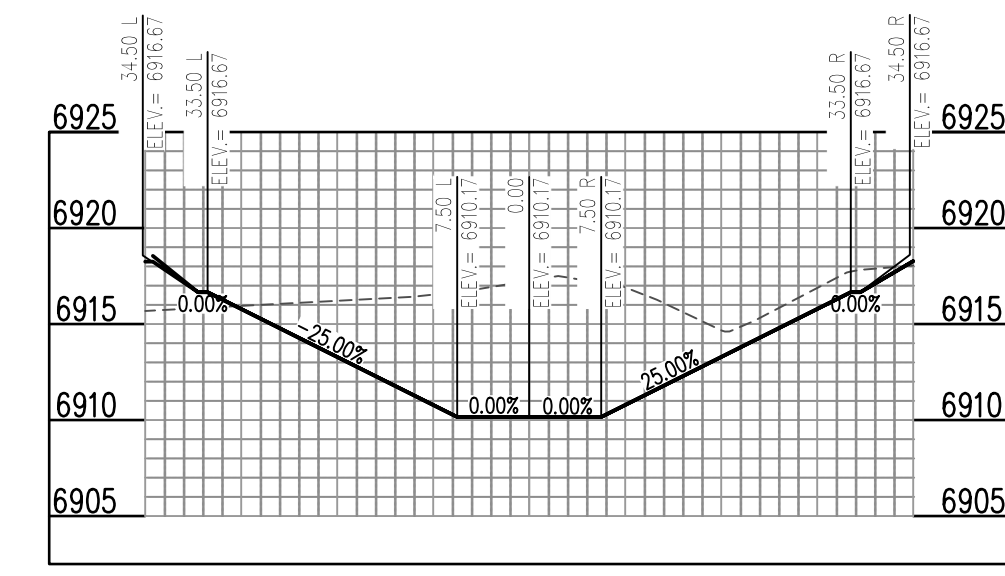
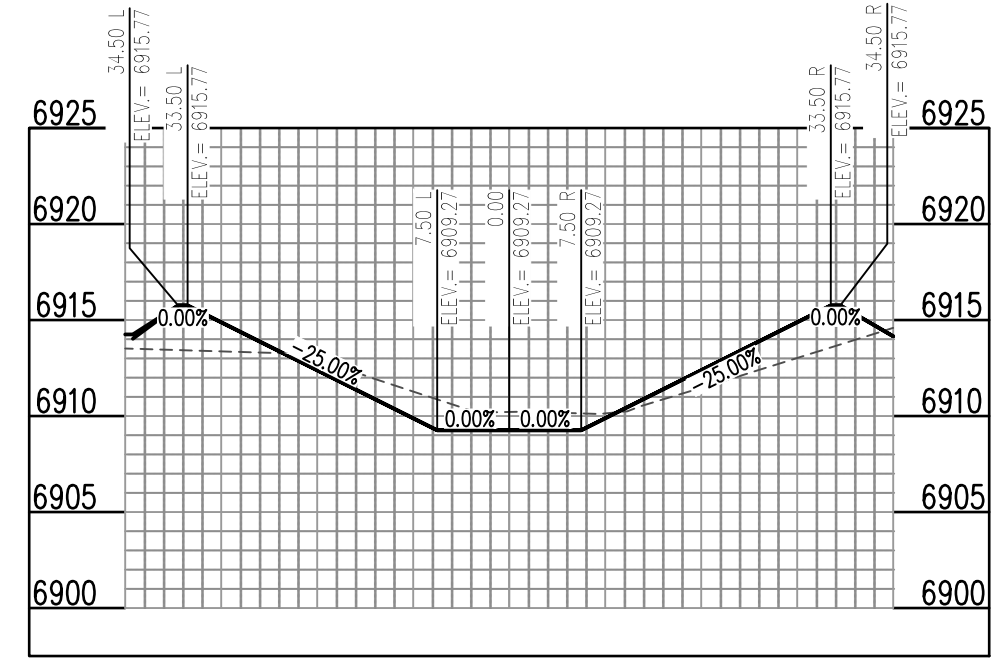
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DROP STRUCTURE
GENERAL DETAILS



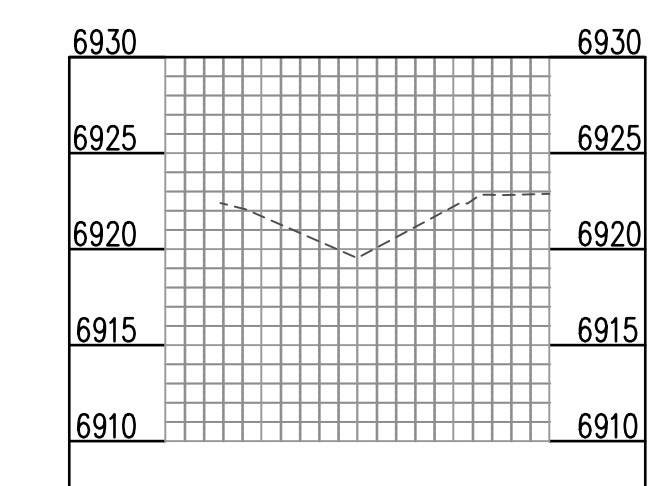
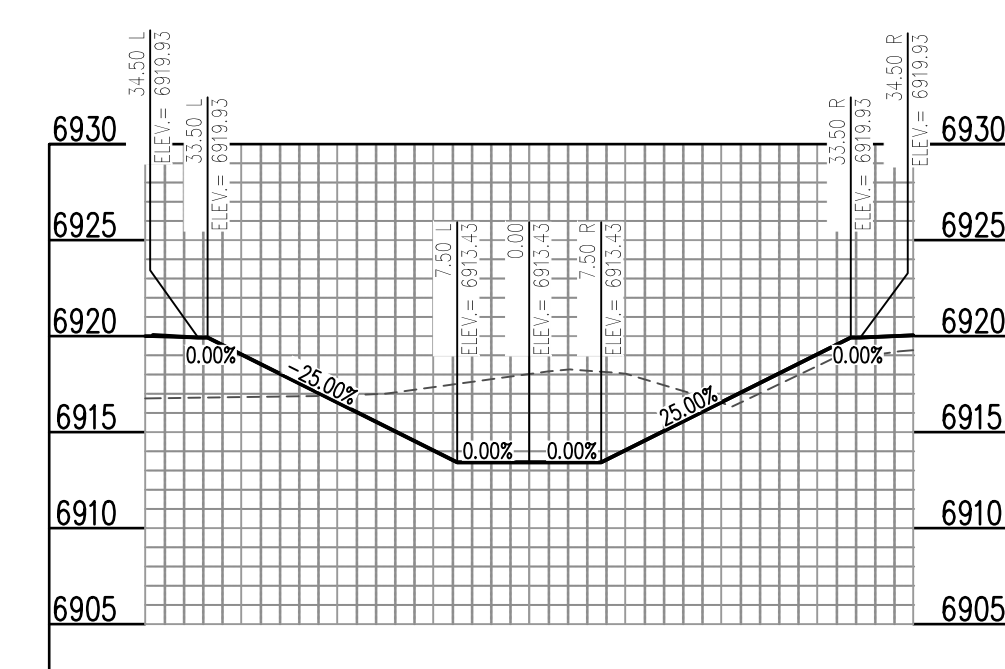
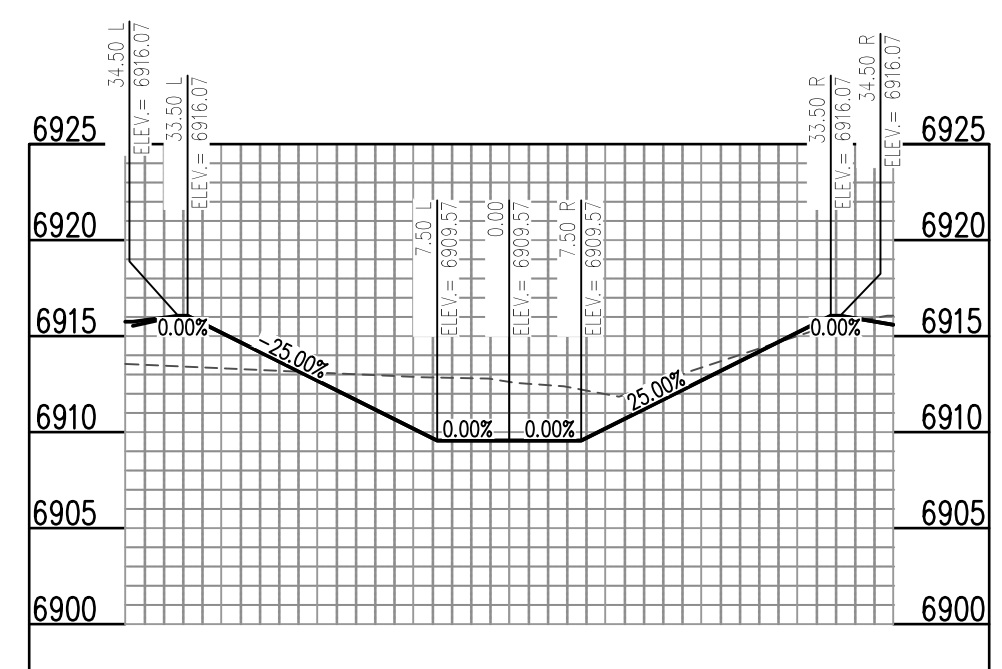
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PROP. MERIDIAN ROAD CHANNEL (RMT064) (2+00) - SCALE: H: 1"=20' V: 1"=10'

PROP. MERIDIAN ROAD CHANNEL (RMT064) (5+00) - SCALE: H: 1"=20' V: 1"=10'

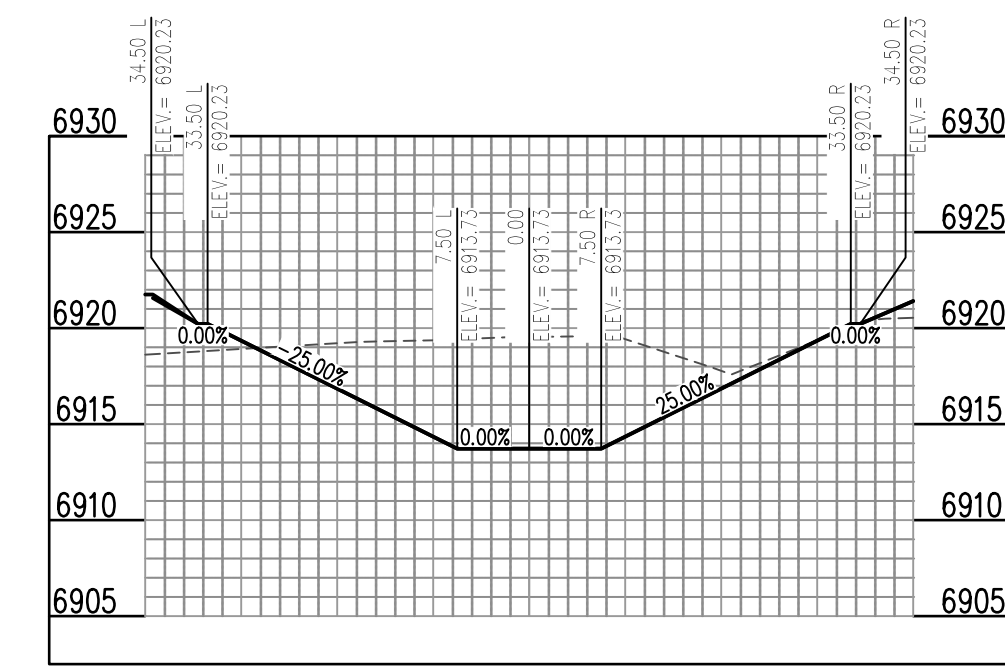
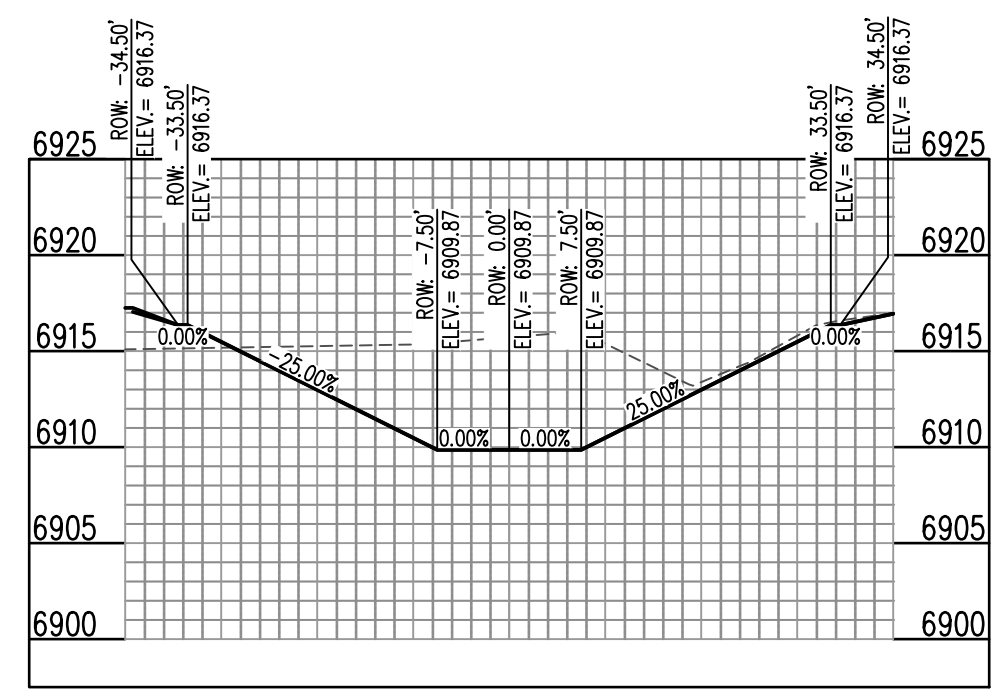
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PROP. MERIDIAN ROAD CHANNEL (RMT064) (3+00) - SCALE: H: 1"=20' V: 1"=10'

PROP. MERIDIAN ROAD CHANNEL (RMT064) (6+00) - SCALE: H: 1"=20' V: 1"=10'

PROP. MERIDIAN ROAD CHANNEL (RMT064) (9+00) - SCALE: H: 1"=20' V: 1"=10'



PROP. MERIDIAN ROAD CHANNEL (RMT064) (4+00) - SCALE: H: 1"=20' V: 1"=10'

PROP. MERIDIAN ROAD CHANNEL (RMT064) (7+00) - SCALE: H: 1"=20' V: 1"=10'

CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

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Project No:	MRS01
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CHANNEL SECTIONS

MERIDIAN STORAGE, LLC

MERIDIAN STORAGE

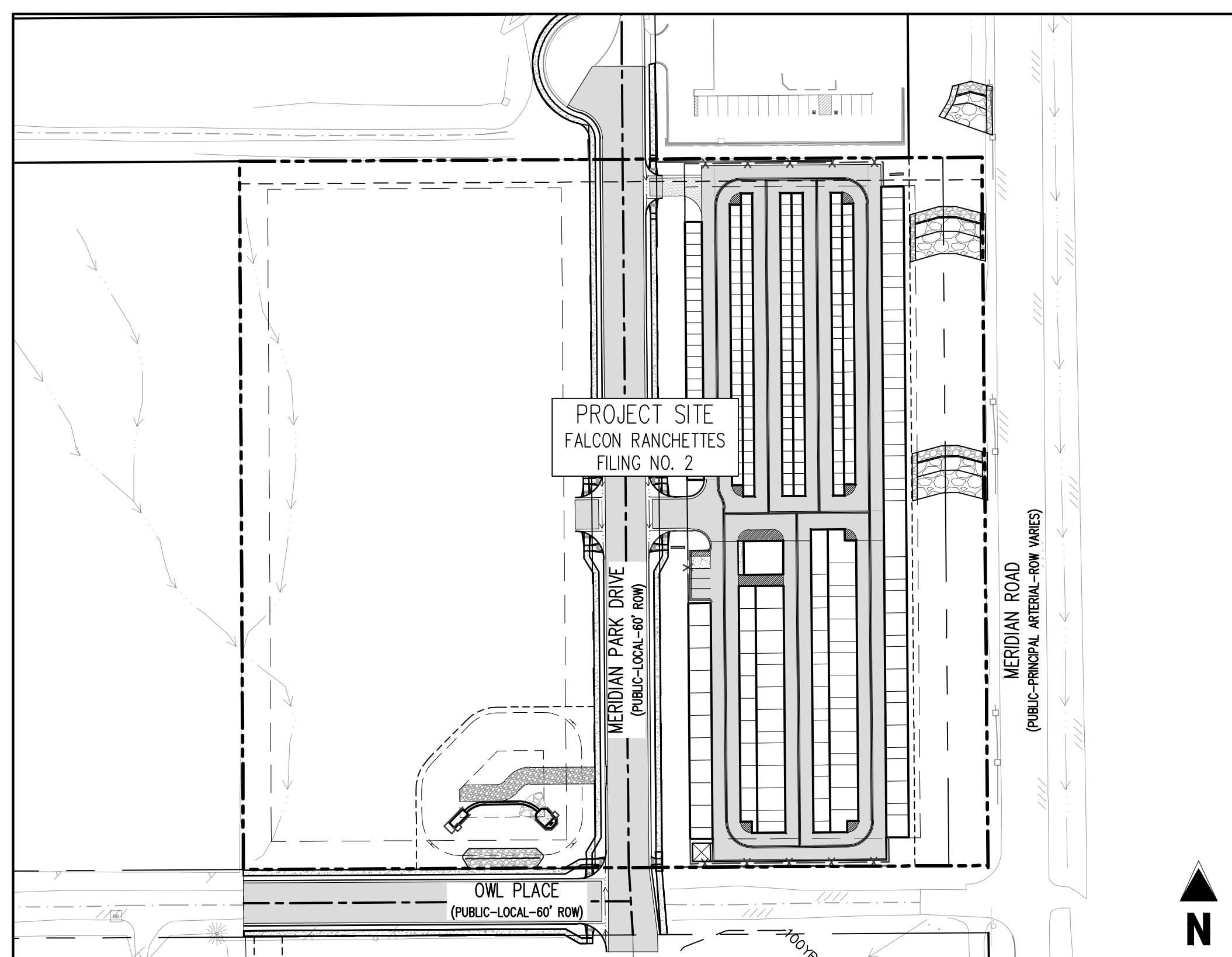
FALCON RANCHETTES FILING NO. 2, NORTH HALF OF THE SOUTHEAST QUARTER OF SECTION 1
TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., COUNTY OF EL PASO
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE

UTILITY CONSTRUCTION DRAWINGS

SF-23-XXX



VICINITY MAP
SCALE: 1"=1000'



SITE MAP
SCALE: 1"=100'

SHEET LIST TABLE		
SHEET NUMBER	SHEET TITLE	SHEET DESCRIPTION
1	COVER SHEET	U0.0
2	NOTES	U0.1
3	UTILITY PLAN	U1.1
4	WATER P&P	U2.1
5	WATER DETAILS	U2.1
6	WATER DETAILS	U2.2
7	WATER DETAILS	U2.3
8	WATER DETAILS	U2.4
9	WASTEWATER DETAILS	U3.1

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

CAUTION - NOTICE TO CONTRACTOR

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2. WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.

LEGAL DESCRIPTION

A PARCEL OF LAND IN THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST, OF THE SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

LOTS 1 & 2, FALCON RANCHETTES, ACCORDING TO THE PLAT THEREOF RECORDED IN PLAT BOOK V-2, PAGE 15, OF THE RECORDS OF EL PASO COUNTY, COLORADO.

CONTAINING 9.604 ACRES, MORE OR LESS.

BENCHMARK

THE SOUTHWEST CORNER OF LOT 1 WOODMEN HILLS FILING NO. 4, MONUMENTED BY A NO. 4 REBAR WITH A YELLOW PLASTIC CAP STAMPED "PLS 24964" NAVD88 ELEVATION = 6947.67

BASIS OF BEARING

ALL BEARINGS ARE GRID BEARINGS OF THE COLORADO STATE COORDINATE SYSTEM, CENTRAL ZONE, NORTH AMERICAN DATUM 1983. BEARINGS ARE BASED ON THE SOUTH LINE OF LOTS 2, 3, & 4 OF FALCON RANCHETTES, AND IS CONSIDERED TO BEAR S89°40'45"W, DEFINED BY FOUND MONUMENTS AS FOLLOWS: A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 2; AND A NO. 4 REBAR WITH A 1-1/4" YELLOW PLASTIC CAP STAMPED "LS 2372", BEING THE SOUTHWEST CORNER OF LOT 4.

NOTE: CONTRACTOR MUST COORDINATE WORK WITH UTILITY COMPANY AND CITY PRIOR TO BEGINNING WORK AND IS RESPONSIBLE FOR ALL MATERIALS, LABOR, REPAIRS, ETC. TO COMPLETE WORK AND RESTORE AREA TO SAME STATE PRIOR TO STARTING WORK.

CONTRACTOR RESPONSIBLE FOR AS-BUILT DRAWINGS, TESTS, REPORTS AND/OR ANY OTHER CERTIFICATES OR INFORMATION AS REQUIRED FOR ACCEPTANCE OF WORK FROM CITY, UTILITY DISTRICTS OR ANY OTHER GOVERNING AGENCY.

SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

WATER AND SEWER MAIN EXTENSIONS:

ANY CHANGES OR ALTERATIONS AFFECTING THE GRADE, ALIGNMENT, ELEVATION AND/OR DEPTH OF COVER OF ANY WATER OR SEWER MAINS OR OTHER APPURTENANCE SHOWN ON THIS DRAWING SHALL BE THE RESPONSIBILITY OF THE OWNER/DEVELOPER. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR ALL OPERATIONAL DAMAGES AND DEFECTS IN INSTALLATION AND MATERIAL FOR MAINS AND SERVICES FROM THE DATE OF APPROVAL UNTIL FINAL ACCEPTANCE IS ISSUED.

SIGNED _____ DATE _____
OWNER/DEVELOPER

PRINT NAME _____

DBA _____

ADDRESS _____

FIRE AUTHORITY APPROVAL:

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT _____

SIGNED _____ DATE _____
FIRE PROTECTION DISTRICT

DISTRICT APPROVALS:

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NO. _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE RULES AND REGULATIONS FOR INSTALLATION OF WATER MAINS AND SERVICES SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

THE WOODMEN HILLS METROPOLITAN DISTRICT RECOGNIZES THE DESIGN ENGINEER AS HAVING RESPONSIBILITY FOR THE DESIGN AND HAS LIMITED ITS SCOPE OF REVIEW ACCORDINGLY.

WOODMEN HILLS METROPOLITAN DISTRICT
WASTEWATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NO. _____

IN CASE OF ERRORS OR OMISSIONS WITH THE WATER DESIGN AS SHOWN ON THIS DOCUMENT THE STANDARDS AS DEFINED IN THE RULES AND REGULATIONS FOR INSTALLATION OF WASTEWATER MAINS AND SERVICES SHALL RULE.

APPROVAL EXPIRES 180 DAYS FROM DESIGN APPROVAL.

ENGINEERS STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE STATE OF COLORADO.

RONALD G. DENNIS, COLORADO P.E. NO. 0051622 _____ DATE _____

PROJECT CONTACTS

PROPERTY OWNER
MIKE D TEKER
11750 OWL PLACE
PEYTON, CO 80831
TELE: (719) 641-9261
CONTACT: MIKE D TEKER
EMAIL: MIKE.TEKER@GMAIL.COM

APPLICANT
GALLOWAY & CO., INC.
1155 KELLY JOHNSON BLVD., SUITE 305
COLORADO SPRINGS, CO 80920
TELE: (719) 900-7220
CONTACT: CALEB JOHNSON
EMAIL: CALEBJOHNSON@GALLOWAYUS.COM

CIVIL ENGINEER
GALLOWAY & CO., INC.
1155 KELLY JOHNSON BLVD., SUITE 305
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LANDSCAPE ARCHITECT
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SURVEYOR
GALLOWAY & CO., INC.
1155 KELLY JOHNSON BLVD., SUITE 305
COLORADO SPRINGS, CO 80920
TELE: (719) 900-7220
CONTACT: BILL BROOKS
EMAIL: BILLBROOKS@GALLOWAYUS.COM

CITY & UTILITY CONTACTS

WATER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
TELE: (719) 495-2500
CONTACT: CODY RITTER
EMAIL: CODY@WHMD.ORG

WASTEWATER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
TELE: (719) 495-2500
CONTACT: CODY RITTER
EMAIL: CODY@WHMD.ORG

ELECTRIC
MOUNTAIN VIEW ELECTRIC ASSOCIATION
11140 E WOODMEN RD.,
FALCON, CO 80831
TELE: (800) 388-9881
CONTACT: GINA PERRY
EMAIL: GINA.P@MVEA.COOP

NATURAL GAS
COLORADO SPRINGS UTILITIES
7770 DURANT DRIVE, P.O. BOX 1103, MAIL CODE 2150
COLORADO SPRINGS, CO 80947-2150
(719) 688-5573
CONTACT: KARRON CASSIDY
EMAIL: KACASSID@CSU.ORG

FIRE
FALCON FIRE PROTECTION DISTRICT
7030 OLD MERIDIAN RD.,
FALCON, CO 80831
TELE: (719) 495-4050
CONTACT: TRENT HARMING
EMAIL: THARMING@FALCONFIREP.D.ORG

LIST OF ABBREVIATIONS

SHT - SHEET
A - DEFLECTION ANGLE
L - LENGTH
R - RADIUS
CB - CHORD BEARING
C - CHORD LENGTH
N - NORTH/NORTHING
W - WEST
E - EAST/EASTING
S - SOUTH
DET - DETAIL
EX - EXISTING
W/ - WITH
PC - POINT OF CURVATURE/PORTLAND CEMENT
WVF - WELDED WIRE FABRIC
VERT - VERTICAL
OC - ON CENTER
FDC - FIRE DEPARTMENT CONNECTION
CT - COURT
DR - DRIVE
TYP - TYPICAL
REC - RECEPTION NUMBER
Ø, DIA - DIAMETER
PT - POINT OF TANGENCY
MIN - MINIMUM
MAX - MAXIMUM
HDPE - HIGH DENSITY POLYETHYLENE

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: UTIL

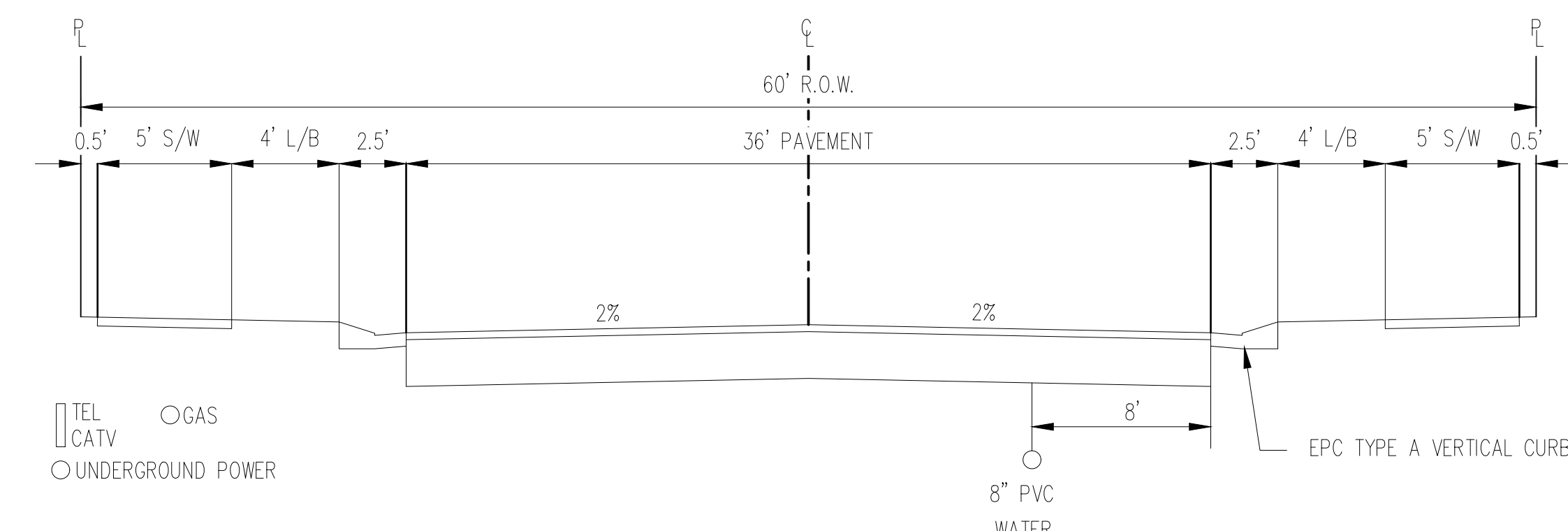
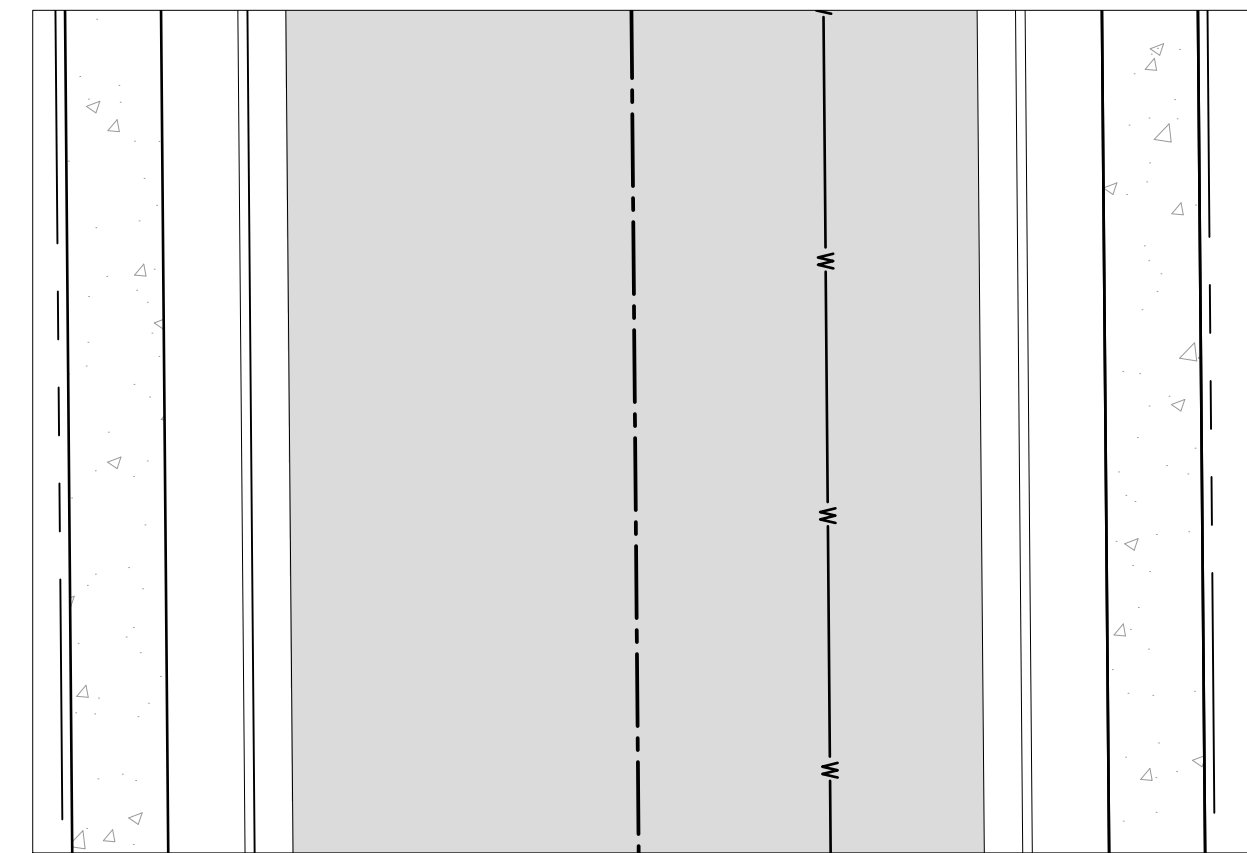
COVER SHEET

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Sheet 1 of 8

GENERAL NOTES:

1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WMHD, THE DISTRICT) SPECIFICATIONS.
2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICTS ENGINEER. ANY REVISION TO THE PLANS SHALL BE 30 NOTED WITH THE OLD DRAWING MARKED "NOT VALID".
3. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.
4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
5. ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.
6. ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN "S" FOR SEWER AND A "W" FOR WATER.
7. DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.
8. ALL DUCTILE IRON PIPE LESS THAN 12 INCHES AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.
9. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES AND THE GEOTECHNICAL ENGINEER.
10. COMPACTION TESTS SHALL BE 80% STANDARD PROCTOR AS DETERMINED BY ASTM D998, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPROVED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
11. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER OF RECORD A REPORT OF THE FIELD VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.
12. ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.
13. BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPE LINE CONSTRUCTION.
14. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.
15. ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN DISTRICT AS REQUESTED.
16. AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE CONTRACTOR AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.
17. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.
18. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND OUTER AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.
19. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICTS OFFICE.
20. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEMAED NECESSARY BY THE DISTRICT.
21. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN METROPOLITAN DISTRICT:
 - A) PRIOR TO THE START OF CONSTRUCTION, A PRE-CONSTRUCTION MEETING IS REQUIRED. A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK, A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRE-CONSTRUCTION MEETING. NO PRE-CONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT.
 - B) THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.
22. TESTING OF FACILITIES:
 - A) THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.
 - B) ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS:
 - TEST 100 % OF ALL LINES
 - MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).
 - C) ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS:
 - ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING
 - ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO CCTV INSPECTION.
 - SEWER MAINS TO BE PRESSURE TEST PRIOR TO CCTV INSPECTION
 - ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.
23. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE, THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTOR'S COST.
24. FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.
25. ACCEPTANCE:
 - A) THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THRU HAS OCCURRED.
 - B) A SECOND ACCEPTANCE MAY OCCUR ONCE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).
26. ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.
27. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARBONITE MARKER ALONG WITH TRACER WIRE.

28. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.
29. INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE.
30. WATER SYSTEM INSTALLATION NOTES:
 - A) ALL WATER AND FORCE MAIN PIPE SHALL BE ANNA 9000 PVC, OR EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE-AND-ONE-HALF (5.5) FEET.
 - B) ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARBONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARBONITE MARKERS AS APPLICABLE.
 - C) THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPMENT. ANY REQUIRED REALIGNMENT, HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.
 - D) FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8" X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: GREASE. ACCEPTABLE BRAND IS KENNEDY GUARDIAN (KBID, KBIA, AND KBIAM). EACH FIRE HYDRANT LOCATION SHALL ALSO BE USED AS TEST STATION.
 - E) ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN 500 FT (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).
 - F) CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.
 - G) IRRIGATION SERVICES SHALL HAVE A STOP-AND-WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.
 - H) COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:
 - A) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAG-T TESTING, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
 - B) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
 - C) ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.
31. WASTEWATER SYSTEM INSTALLATION NOTES:
 - A) SANITARY SEWER LENGTHS ARE MH CENTER - MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR APPROVED EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE DISTRICT. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED, IN-LINE PVC PUSH-ON WYES. TAPPING SADDLES MAY ONLY BE USED FOR TAPPING PRE-EXISTING MAINS.
 - B) ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RUI16 - RUBR-NEK JOINT WRAP, OR APPROVAL EQUAL, AND COATED.
 - C) COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:
 - A) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.
 - B) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.
 - C) ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.
 - D) DOWNSTREAM PLUG CAN BE REMOVED ONCE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE MET.
32. THE ABOVE GUIDELINES ARE SUBJECT TO CHANGE AT ANY TIME.



TYPICAL STREET SECTION - URBAN LOCAL ROADWAY
N.T.S.

- STREET NAMES
1. MERIDIAN PARK DRIVE
 2. OWL PLACE

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

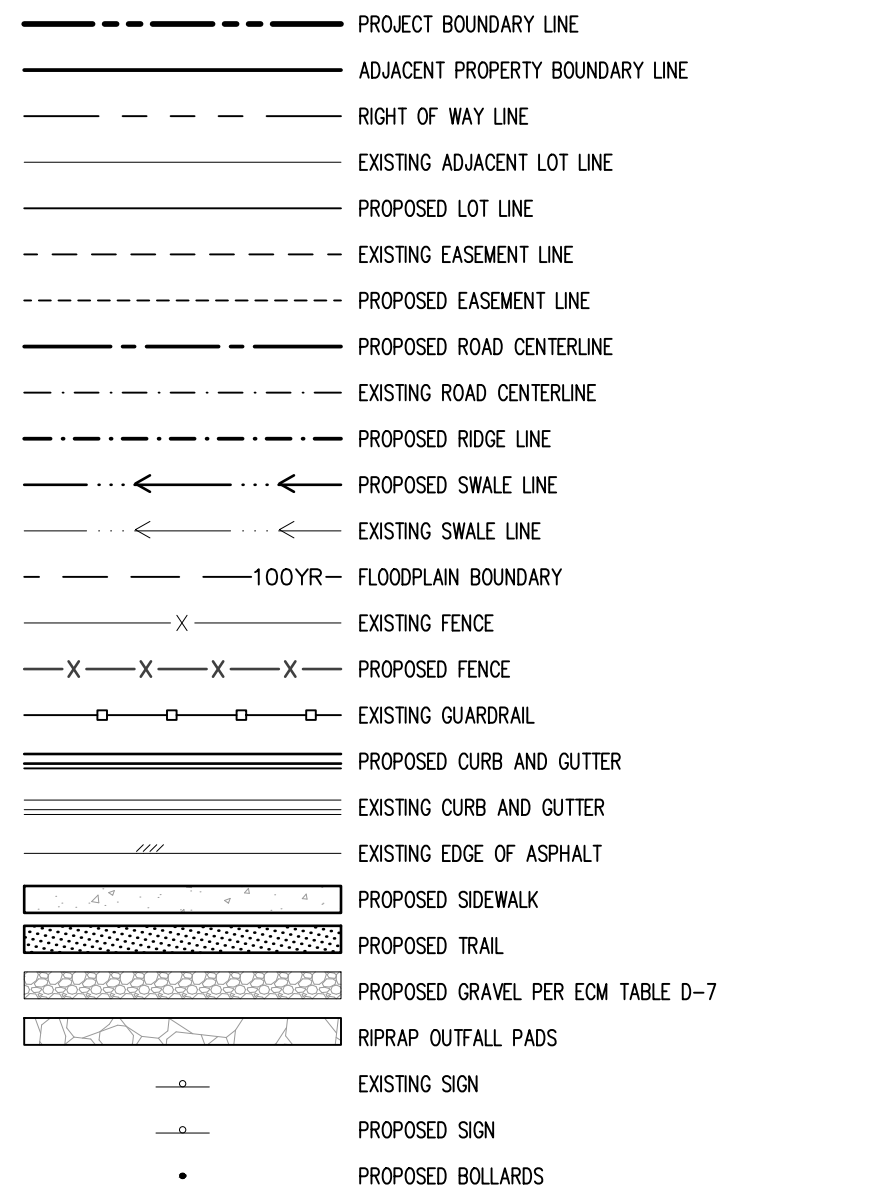
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

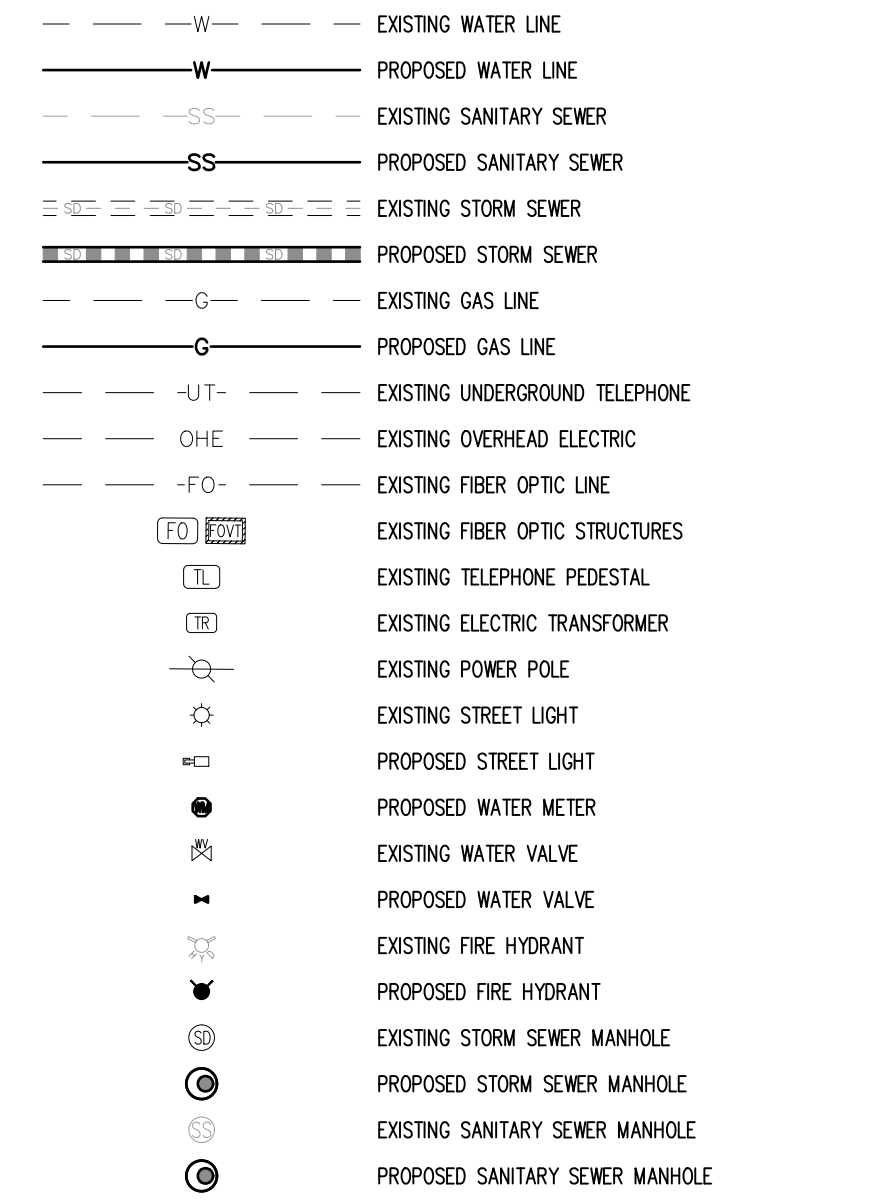
Project No:	MRS01
Drawn By:	JDM
Checked By:	CMWJ
Date:	UTIL

NOTES

SITE LEGEND



UTILITY LEGEND

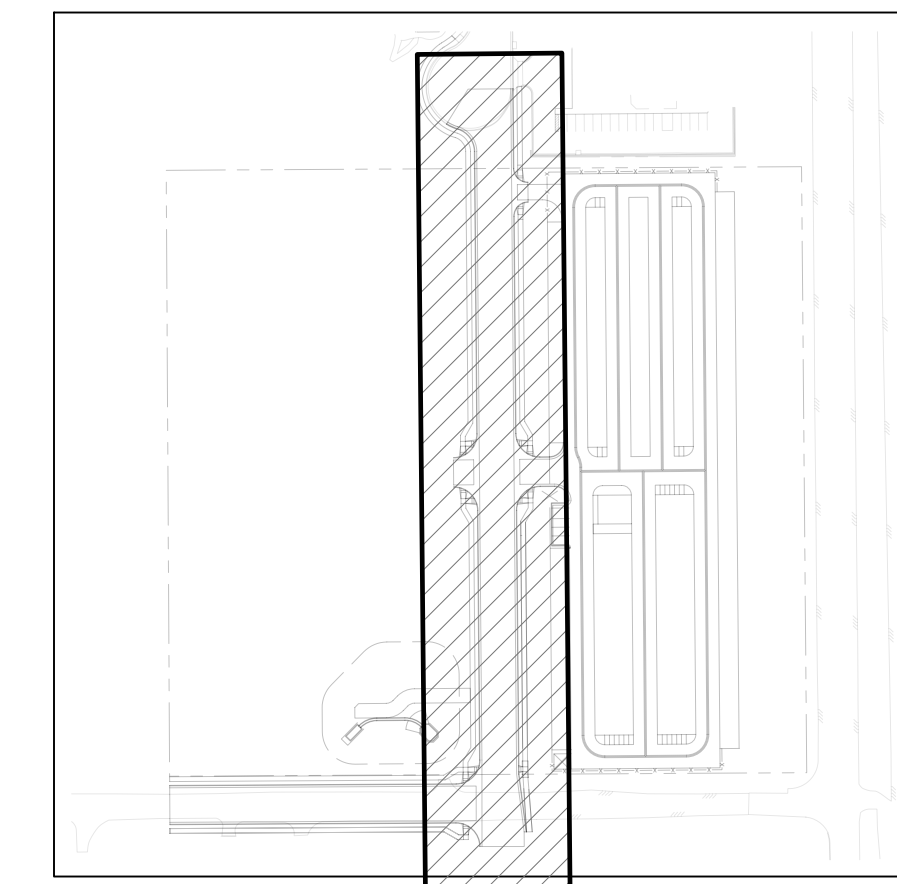


NOTES

- ALL WATER MAINS SHALL BE NO CLOSER THAN FIVE FEET (5') TO EDGE OF CONCRETE CURB AND/OR GUTTER.
 - WATER MAINS SHALL BE DESIGNED FOR A MINIMUM OF FIVE FEET SIX INCHES (5'-6") AND A MAXIMUM OF SIX FEET SIX INCHES (6'-6") OF COVER, EXCEPT WHERE ANOTHER UTILITY CAUSES A CONFLICT, IN WHICH CASE THE WATER MAIN SHALL BE LOWERED AS NECESSARY.
 - CONTRACTOR TO READ AND BECOME FAMILIAR WITH THE WOODMEN HILLS METROPOLITAN DISTRICT WATER AND WASTE WATER SYSTEM STANDARD SPECIFICATIONS, CRITERIA MANUAL AND DETAILS PRIOR TO BEGINNING CONSTRUCTION.
- CAUTION - NOTICE TO CONTRACTOR**
- ALL UTILITY LOCATIONS SHOWN ARE BASED ON MAPS PROVIDED BY THE APPROPRIATE UTILITY COMPANY AND FIELD SURFACE EVIDENCE AT THE TIME OF SURVEY AND IS TO BE CONSIDERED AN APPROXIMATE LOCATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION OF ALL UTILITIES, PUBLIC OR PRIVATE, WHETHER SHOWN ON THE PLANS OR NOT, PRIOR TO CONSTRUCTION. REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION.
 - WHERE A PROPOSED UTILITY CROSSES AN EXISTING UTILITY, IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF SUCH EXISTING UTILITY, EITHER THROUGH POT-HOLING OR ALTERNATIVE METHOD. REPORT INFORMATION TO THE ENGINEER PRIOR TO CONSTRUCTION.



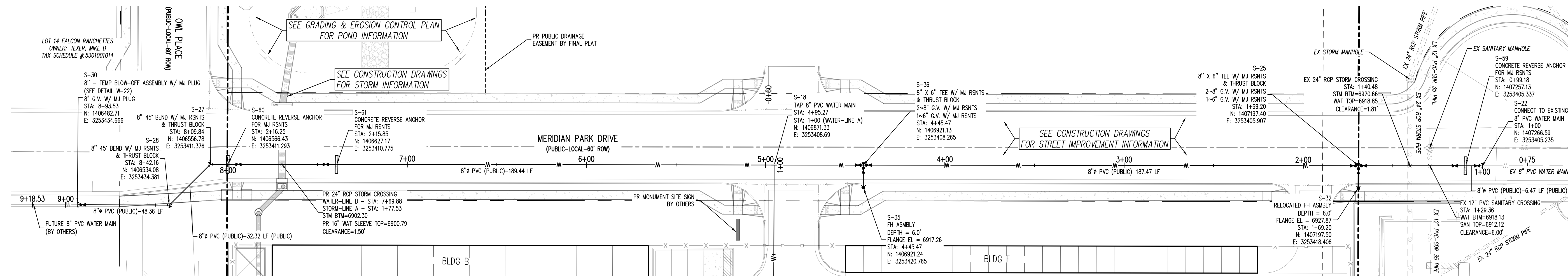
Know what's below. Call before you dig.



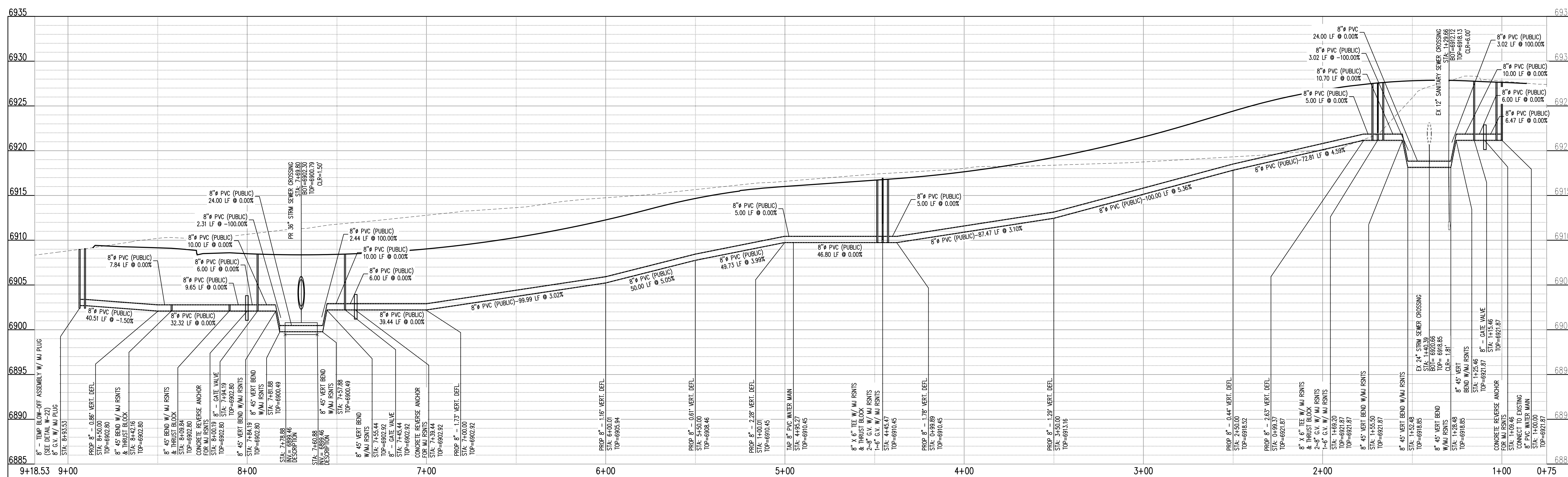
KEYMAP
SCALE: 1"=200'



SCALE: 1"=30'



WATER-LINE B (STA: 0+75 - 9+18.53)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'

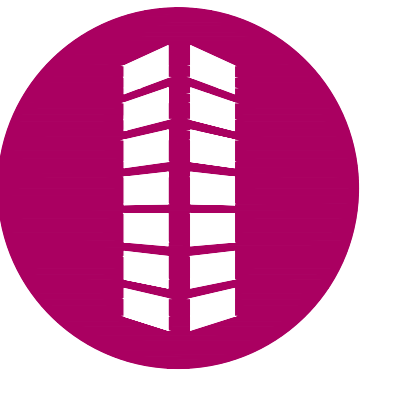


WATER-LINE A (STA: 0+75 - 9+18.53)
SCALES: HORIZONTAL 1"=20', VERTICAL 1"=4'



1155 Kelly Johnson Blvd., Suite 305
Colorado Springs, CO 80920
719.900.7220
GallowayUS.com

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX

STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: UTIL

WATER P&P

U2.1
Sheet 4 of 8

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UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

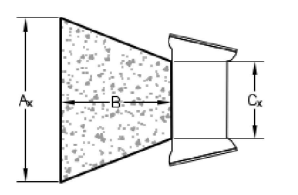
#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: UTIL

WATER DETAILS

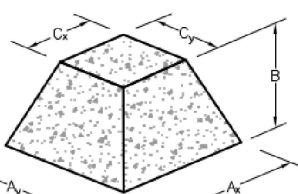
THRUST BLOCK DIMENSIONS & VOLUMES - PVC & DIP 250 psi

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN ²)	A _x (IN)	A _y (IN)	C _x (IN)	C _y (IN)	APPROXIMATE VOLUME (cu yd)
4	11.25' BEND	1.00	1.00	1.00	0.25	0.33	2.00
4	22.5' BEND	2.00	2.00	1.41	0.21	0.33	22.00
4	45' BEND	3.50	3.50	1.87	0.42	0.33	2.00
4	TEE & DEAD END	4.75	4.75	2.18	0.67	0.33	4.75
6	11.25' BEND	2.00	2.00	1.41	0.25	0.50	2.00
6	22.5' BEND	3.75	3.75	1.94	0.38	0.50	2.00
6	45' BEND	7.25	7.25	2.69	0.58	0.50	2.00
6	TEE & DEAD END	9.50	9.50	3.08	0.83	0.50	2.00
8	11.25' BEND	3.25	3.25	1.80	0.34	0.67	2.00
8	22.5' BEND	6.50	6.50	2.55	0.48	0.67	2.00
8	45' BEND	12.50	12.50	3.57	0.67	0.67	2.00
8	TEE & DEAD END	16.25	16.25	4.64	1.08	0.67	2.00



THRUST BLOCK DIMENSIONS & VOLUMES - PVC (Minimum Static Pressure = 170 psi)

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN ²)	A _x (IN)	A _y (IN)	C _x (IN)	C _y (IN)	APPROXIMATE VOLUME (cu yd)
12	11.25' BEND	4.75	2.18	2.18	0.43	1.00	2.00
12	22.5' BEND	9.25	3.04	3.04	0.64	1.00	2.00
12	45' BEND	18.00	4.92	3.66	1.00	1.00	2.00
12	TEE & DEAD END	23.50	6.42	3.66	1.46	1.00	2.48
12	11.25' BEND	8.00	2.83	2.83	0.44	1.33	2.00
12	22.5' BEND	16.00	4.27	3.75	0.66	1.33	2.00
12	45' BEND	31.00	8.27	3.75	1.00	1.33	3.64
12	TEE & DEAD END	40.50	10.80	3.75	1.92	1.33	4.44



THRUST BLOCK DIMENSIONS & VOLUMES - DIP (Minimum Static Pressure = 250 psi)

MAIN SIZE (IN)	TYPE OF FITTING	MINIMUM BEARING SURFACE AREA (IN ²)	A _x (IN)	A _y (IN)	C _x (IN)	C _y (IN)	APPROXIMATE VOLUME (cu yd)
12	11.25' BEND	6.75	2.80	2.80	0.43	1.00	2.00
12	22.5' BEND	13.50	3.69	3.66	0.64	1.00	2.00
12	45' BEND	26.25	7.17	3.66	1.00	1.00	3.09
12	TEE & DEAD END	34.25	9.36	3.66	1.46	1.00	3.95
12	11.25' BEND	11.75	3.43	3.43	0.44	1.33	2.00
12	22.5' BEND	23.25	5.20	3.75	0.66	1.33	2.77
12	45' BEND	45.50	12.13	3.75	1.00	1.33	5.57
12	TEE & DEAD END	59.50	15.87	3.75	1.92	1.33	6.98

THRUST BLOCK DATA

Drawn: JDM	Revised: DECEMBER 2021	WOODMEN HILLS WATER & WASTEWATER SYSTEM	W-11
Date: MARCH 2011	Revised:	METROPOLITAN DISTRICT STANDARD SPECIFICATIONS	
Scale: N.T.S.	Revised:		

CONCRETE THRUST BLOCKS

WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONCRETE THRUST REACTION BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE.

ALL WATER MAINS

INDICATES CONCRETE THRUST BLOCK REQUIRED

MAIN SIZE (INCHES)

4	6	8	10	12	14	16	18	20	22	24	26	28	30	36	42
---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----

TAP SIZE (INCHES)

4	6	8	10	12	14	16	18	20	22	24	26	28	30	36	42
---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----

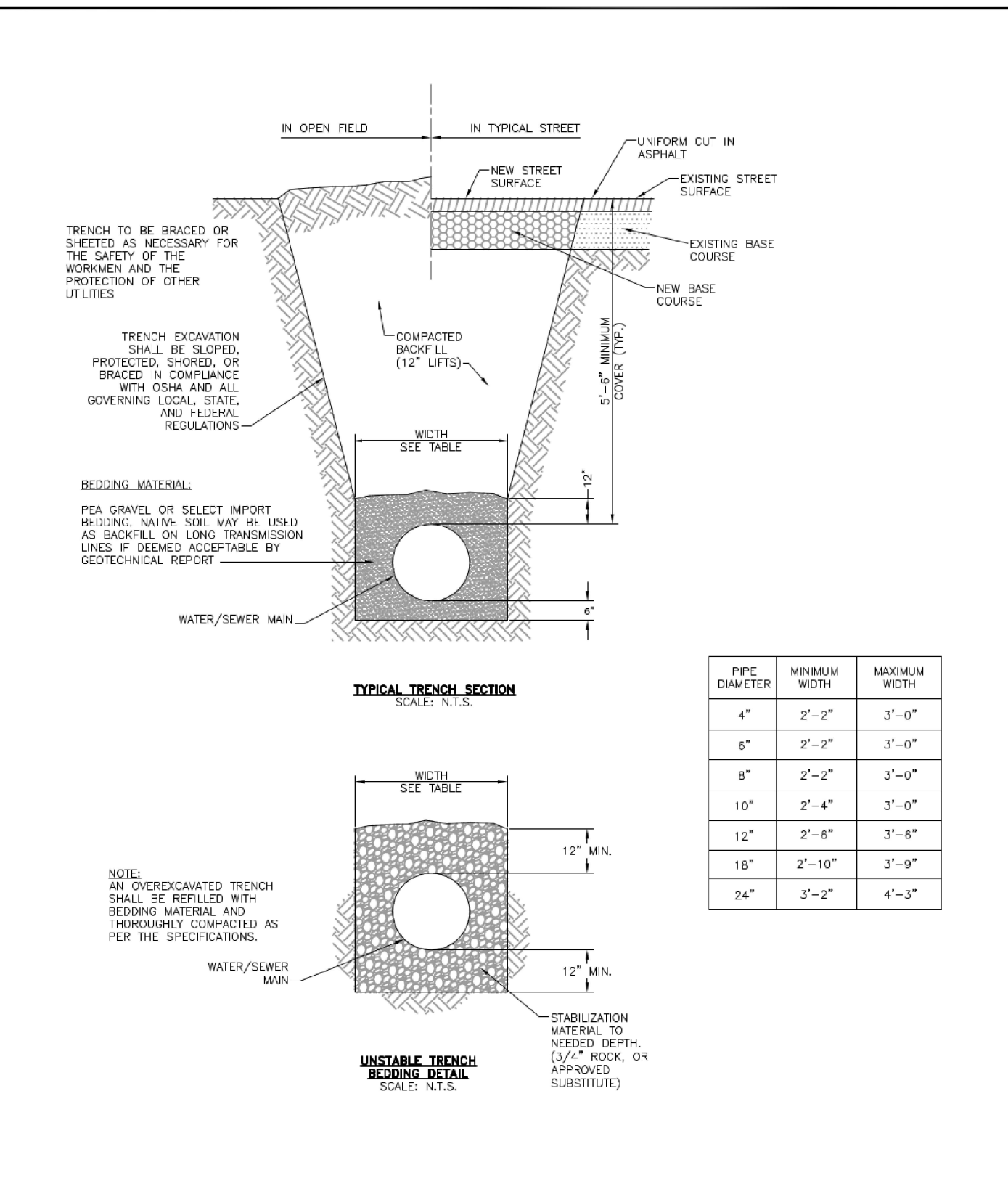
ANY THRUST REACTION BLOCK REQUIREMENTS FOR WATER MAIN AND TAP SIZE COMBINATIONS OTHER THAN THOSE SHOWN ABOVE WILL REQUIRE SPECIAL DESIGN APPROVAL BY THE DISTRICT.

THRUST BLOCKS REQUIRED FOR TAPS

Drawn: JDM/CMWJ
Date: MARCH 2011
Scale: N.T.S.

Revised: DECEMBER 2021
Revised:
Revised:

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS
W-12



MAXIMUM PIPELINE DEFLECTION DATA

PIPE DIAMETER I.D. (IN)	O.D. (IN)	O.D. (FT)	MFRS. DEF. (IN)	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES WITHOUT BENDS	
				(1)	(2)	20'	18'
4"	4.80"	4.00'	5'00'00"	4'00'00"	16"	15"	286'
6"	6.90"	5.75'	5'00'00"	4'00'00"	16"	15"	286'
8"	9.00"	7.64"	5'00'00"	4'00'00"	16"	15"	286'
10"	11.10"	9.25'	5'00'00"	4'00'00"	16"	15"	286'
12"	13.20"	11.00'	5'00'00"	4'00'00"	16"	15"	286'
14"	15.30"	12.76'	3'00'00"	2'24'00"	10"	9"	477'
16"	17.40"	14.50'	3'00'00"	2'24'00"	10"	9"	477'
18"	19.50"	16.25'	3'00'00"	2'24'00"	10"	9"	477'
20"	21.60"	18.00'	3'00'00"	2'24'00"	10"	9"	477'
24"	25.80"	21.50'	3'00'00"	2'24'00"	10"	9"	477'
30"	32.00"	26.66'	2'30'00"	2'00'00"	8"	7"	573'
36"	38.30"	31.92'	2'00'00"	1'36'00"	6"	6"	716'
42"	44.60"	37.00'	2'00'00"	1'36'00"	6"	6"	716'

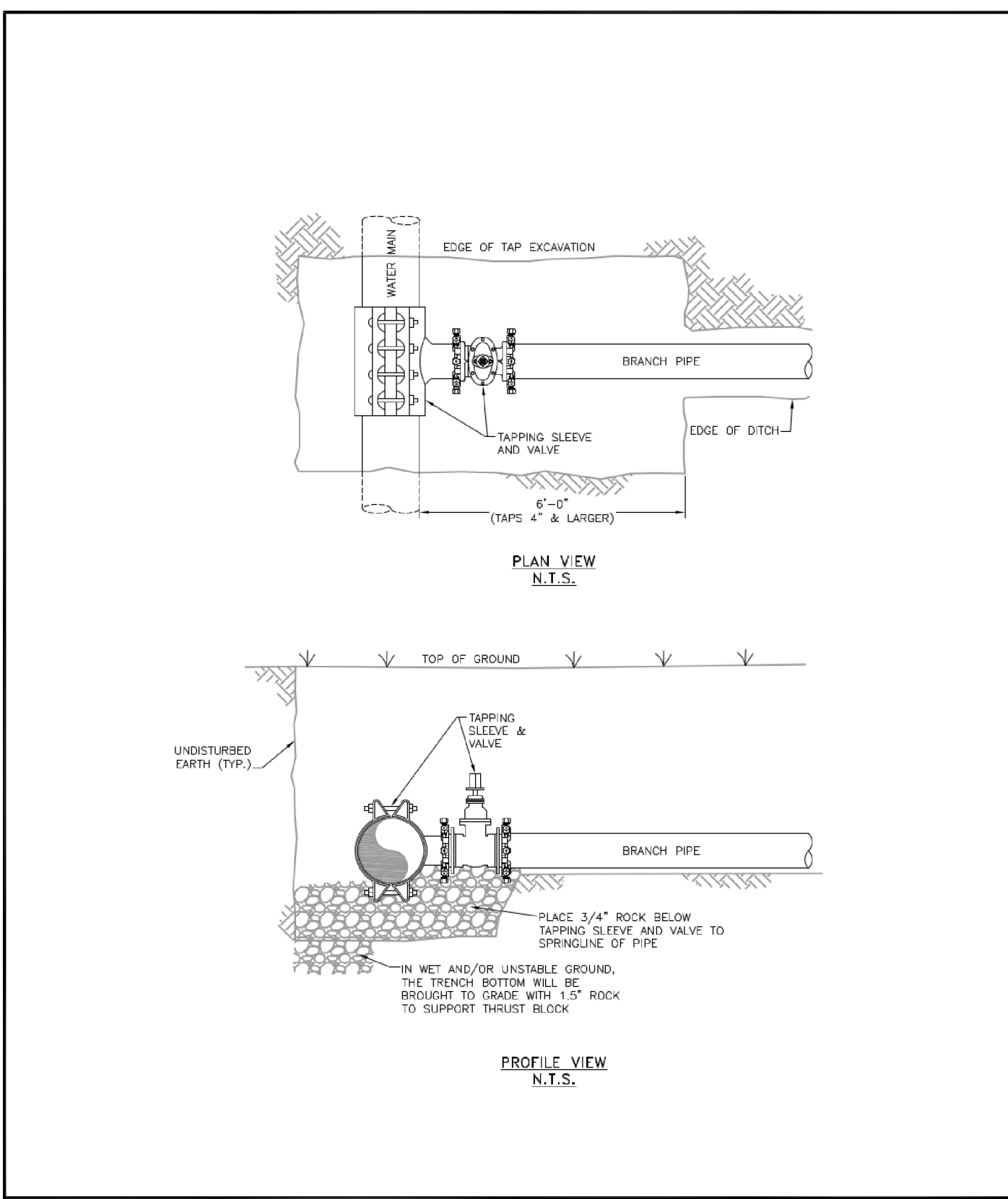
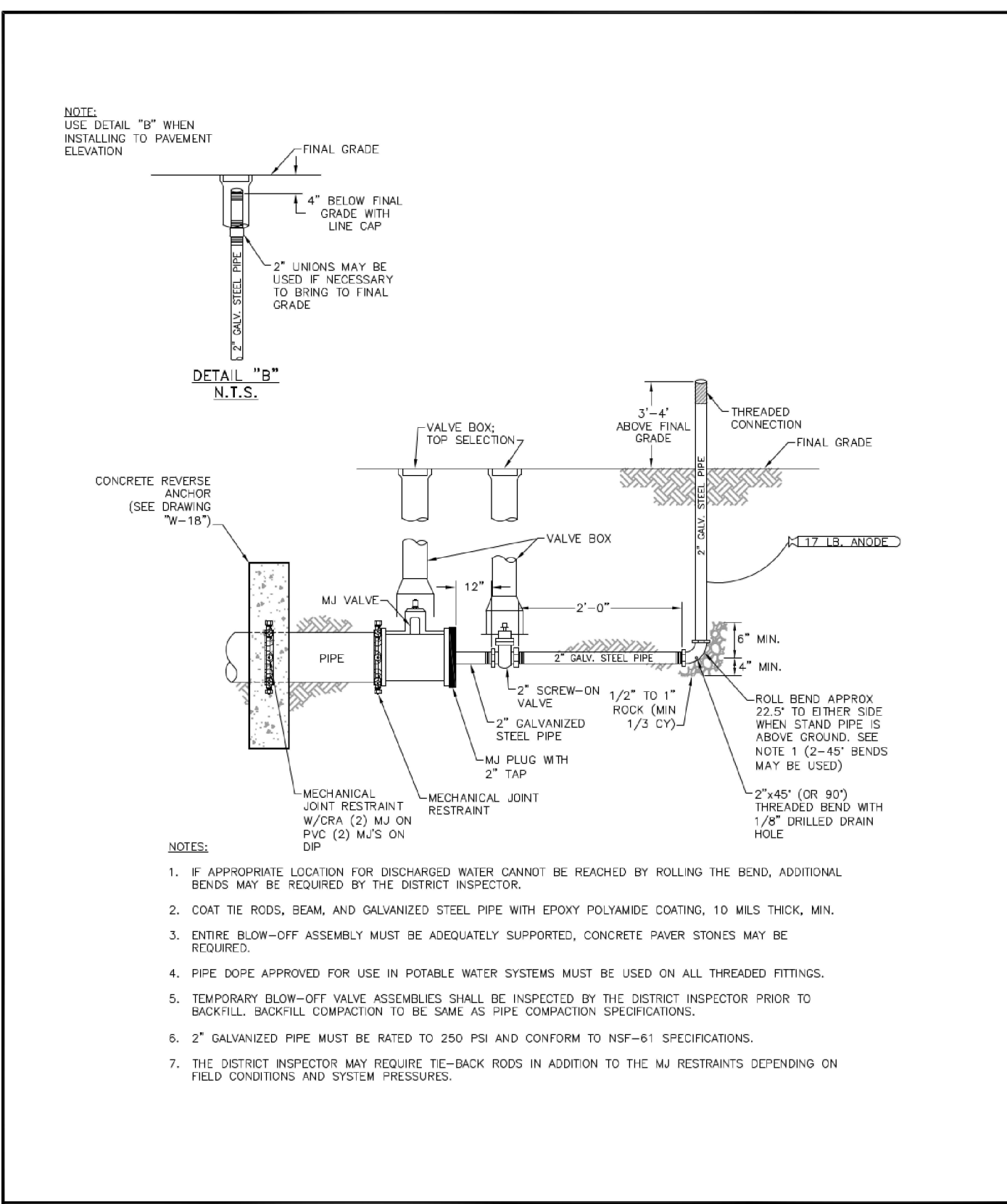
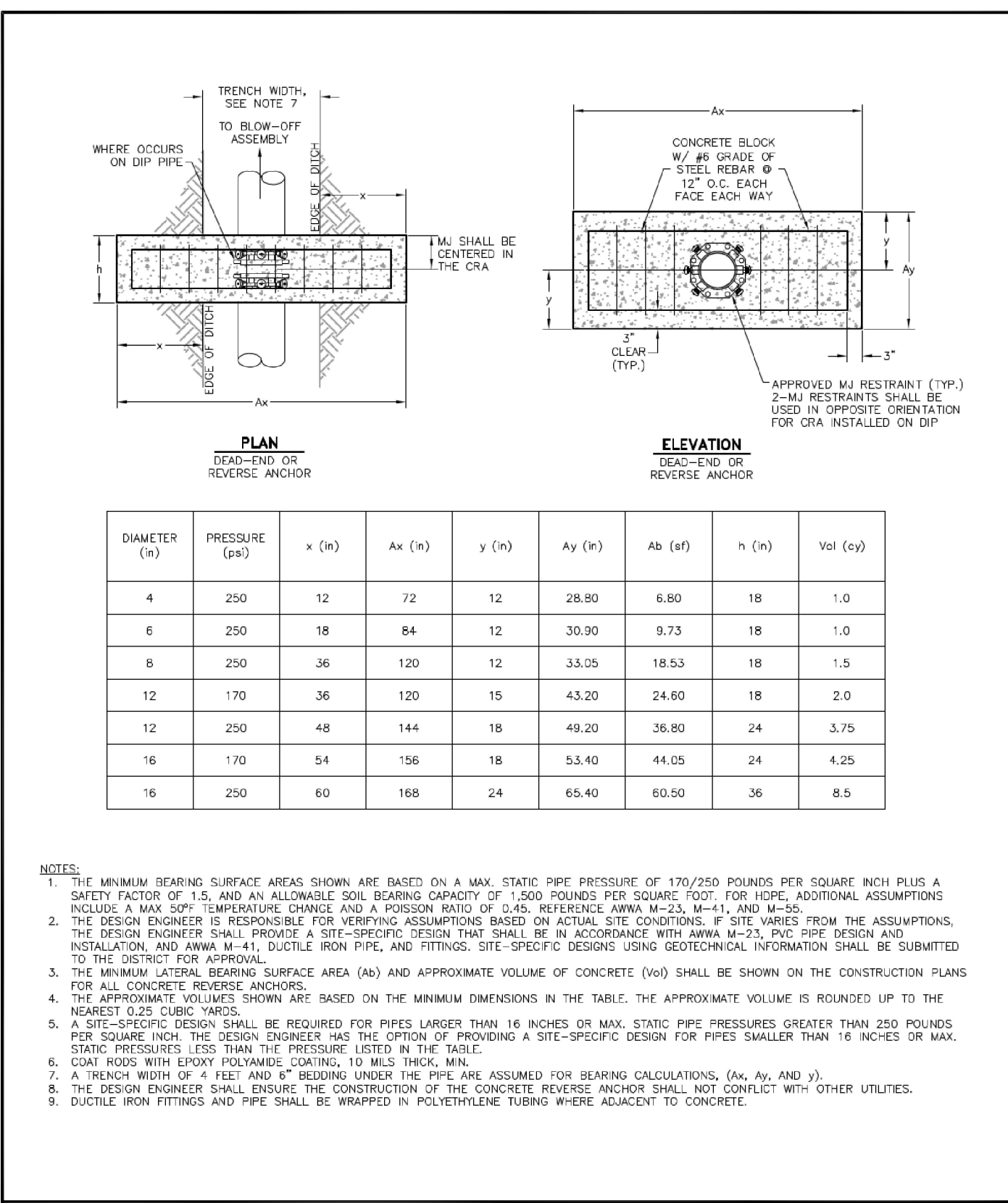
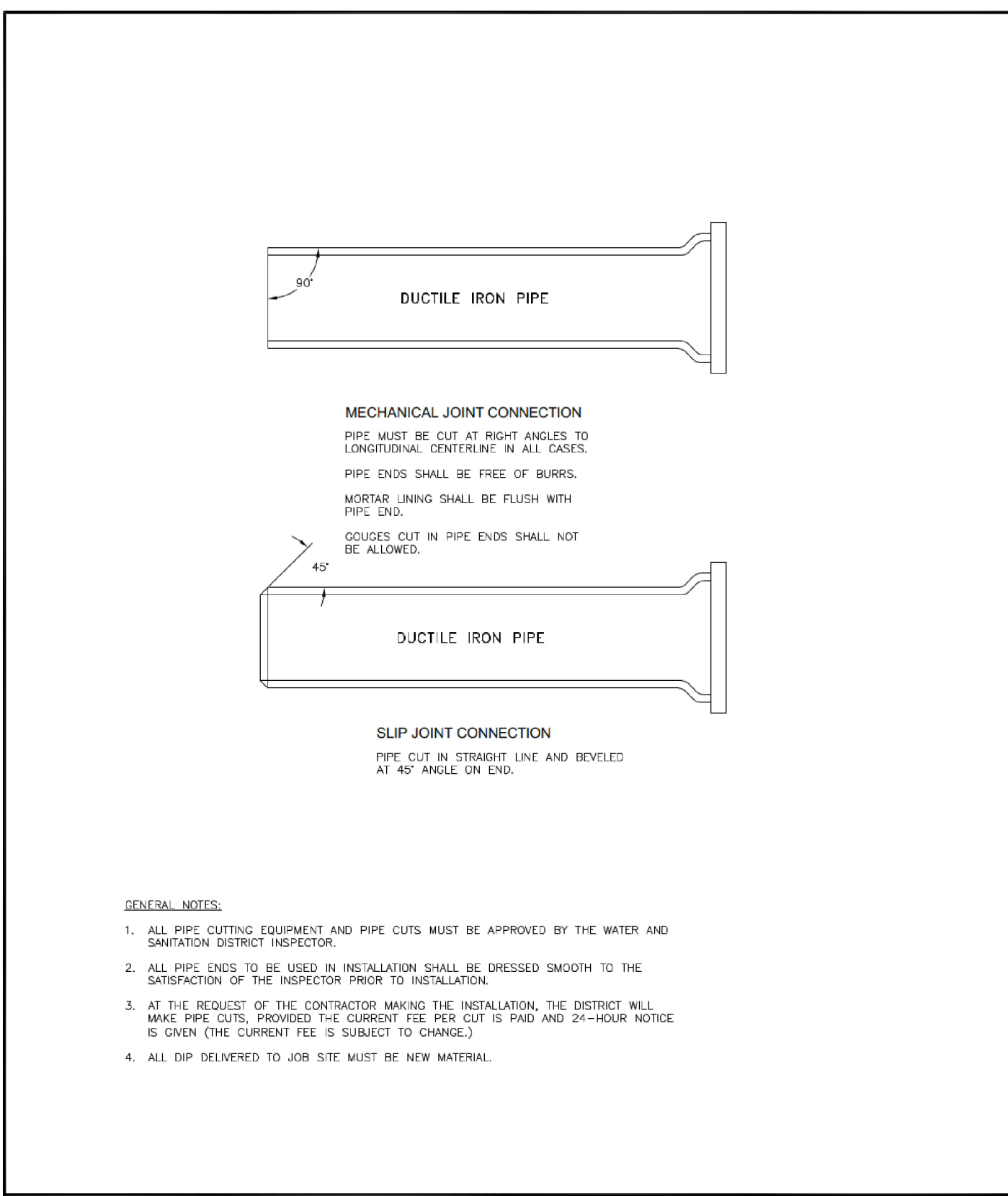
(1) 20'L = NORMAL 20'-FOOT JOINT LAYING LENGTH
(2) = NORMAL 18'-FOOT JOINT LAYING LENGTH

MAXIMUM PIPELINE DEFLECTION DATA

Drawn: JDM
Date: MARCH 2011
Scale: N.T.S.

Revised: DECEMBER 2021
Revised:
Revised:

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS
W-16



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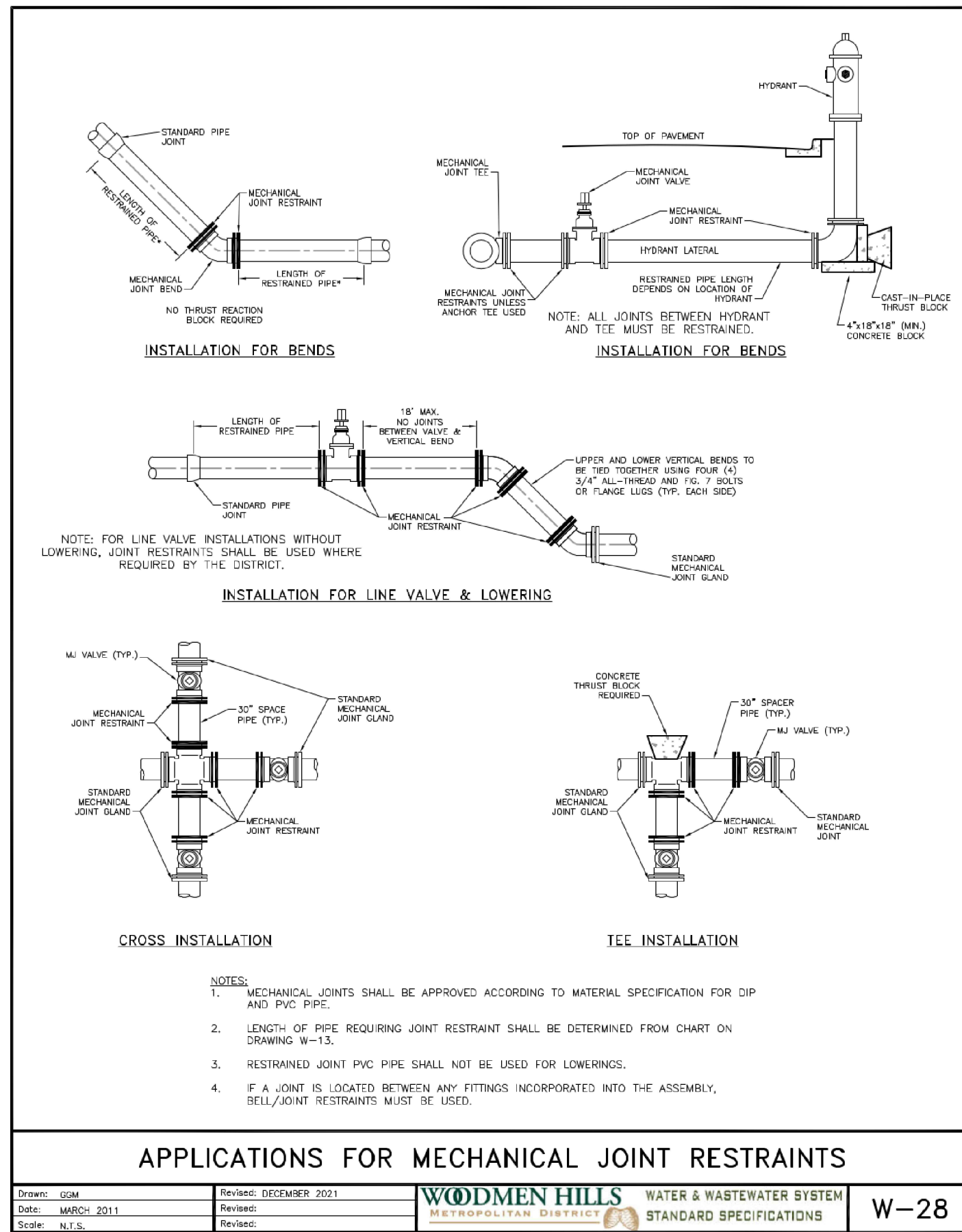
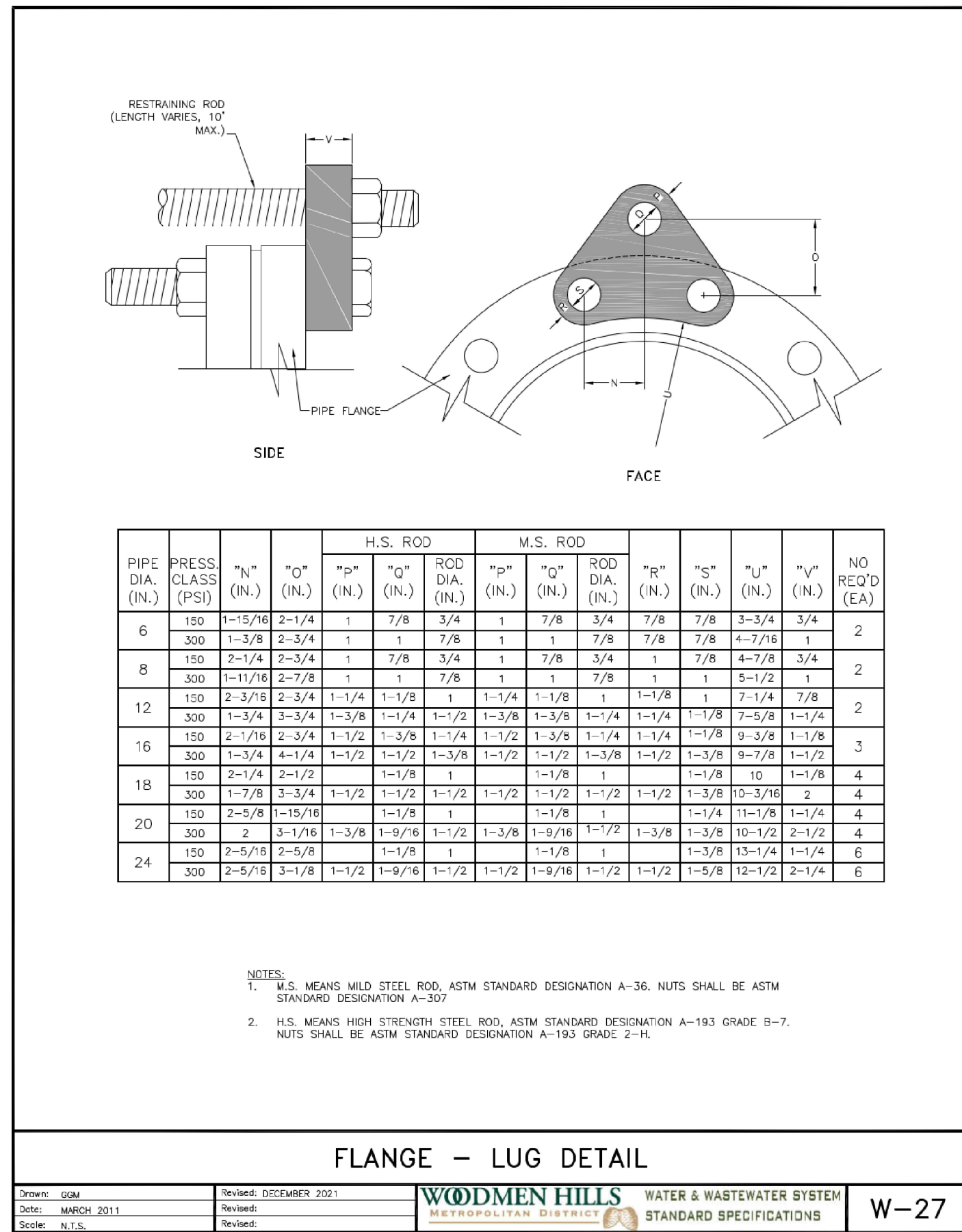
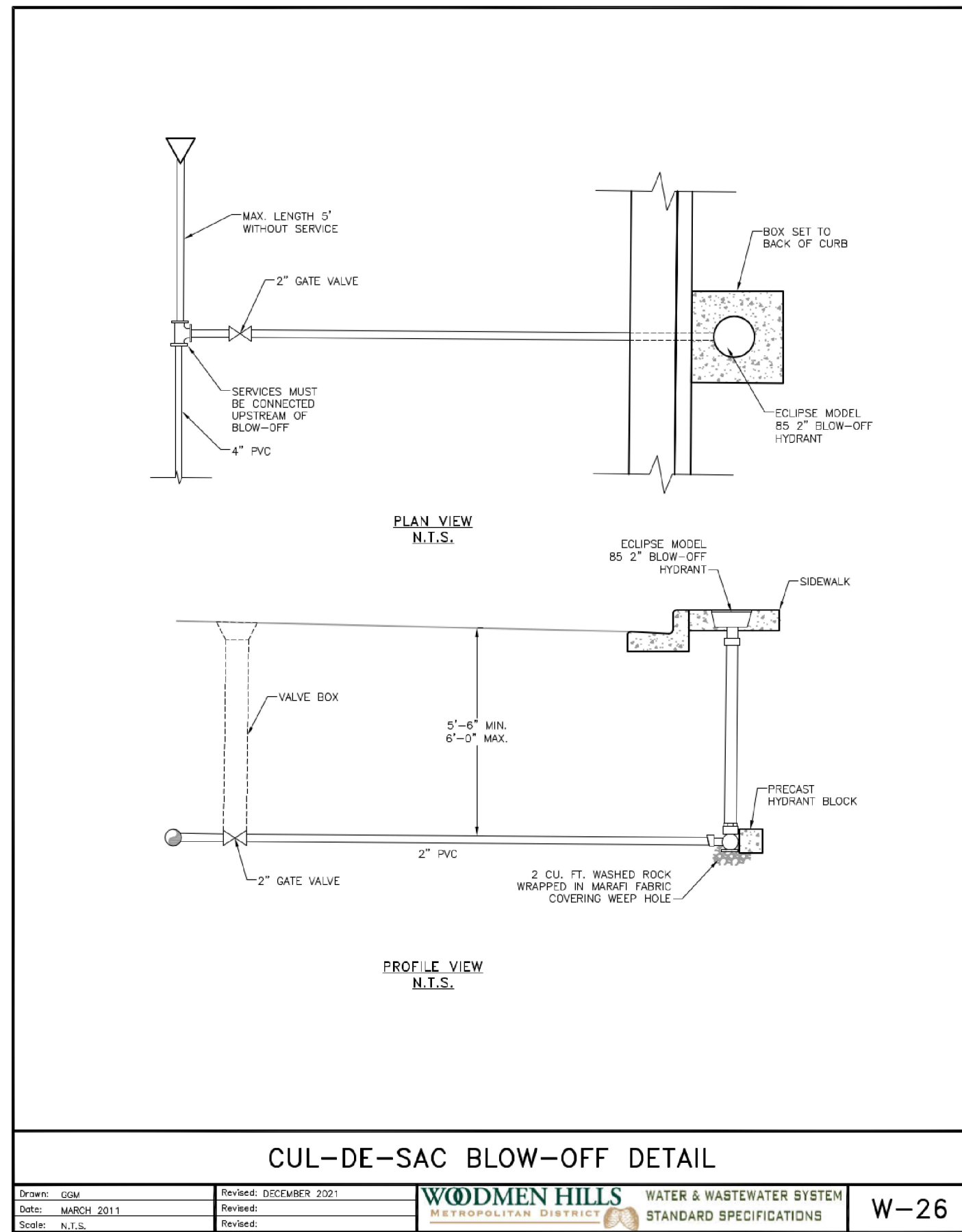


UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: UTIL

WATER DETAILS



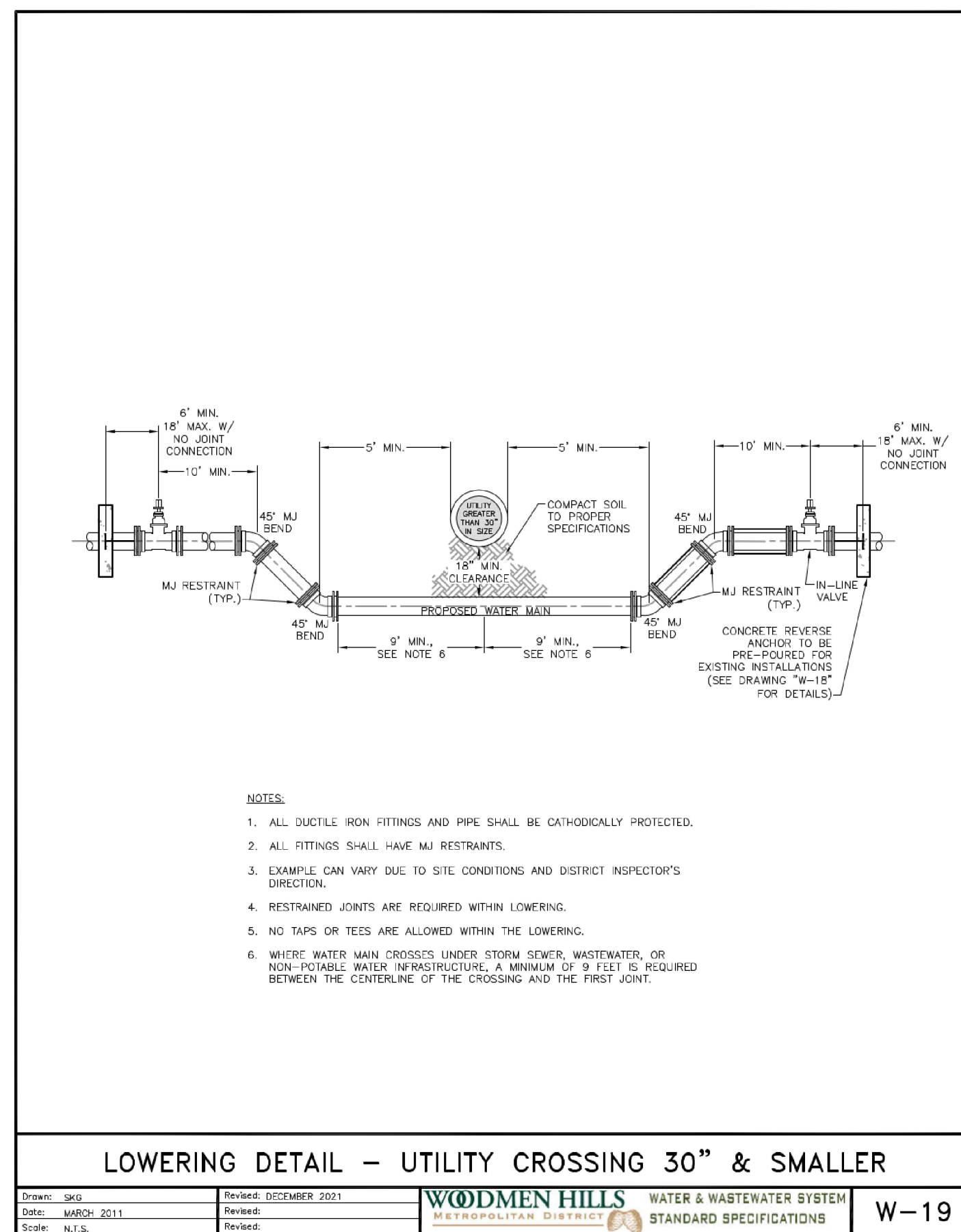
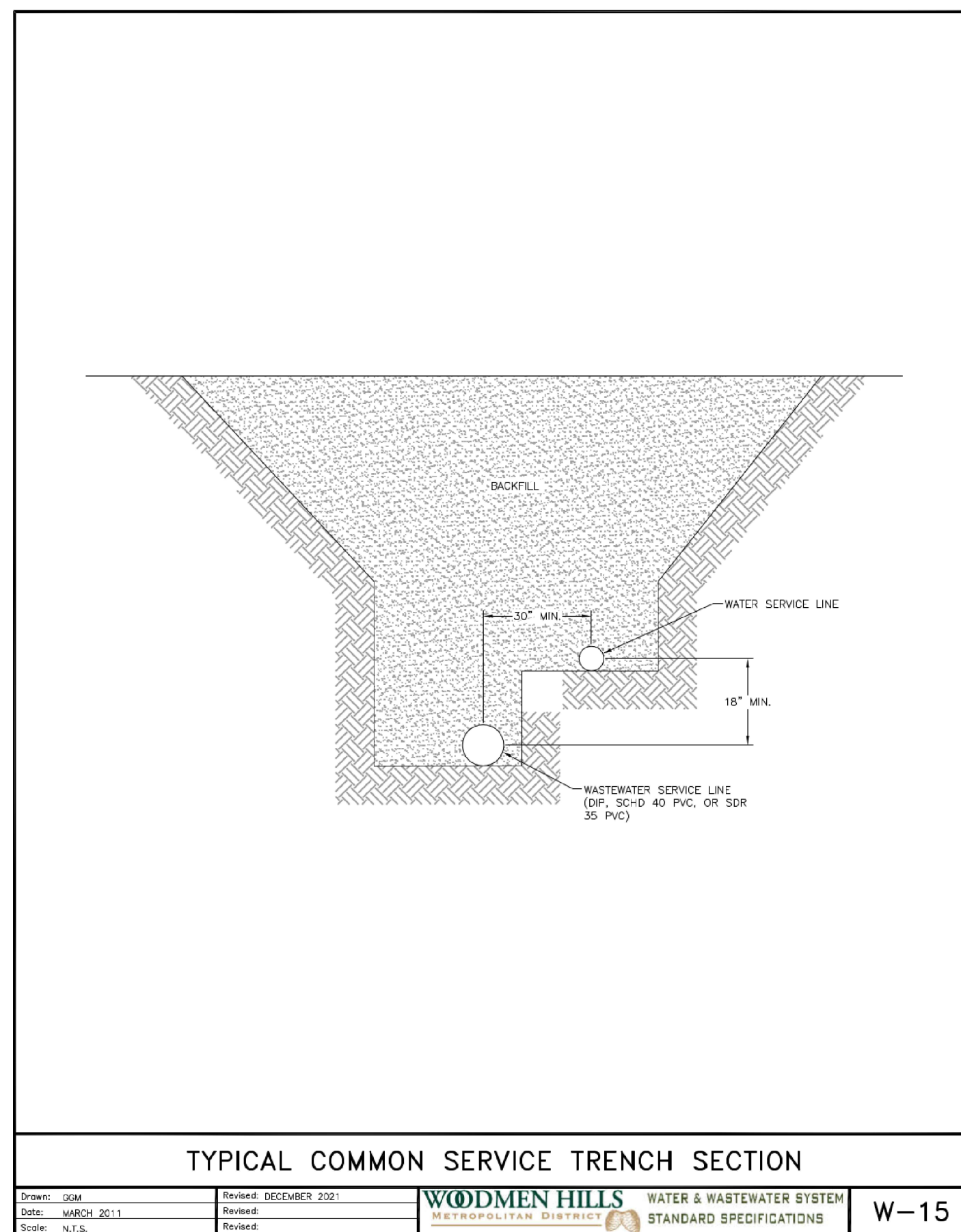
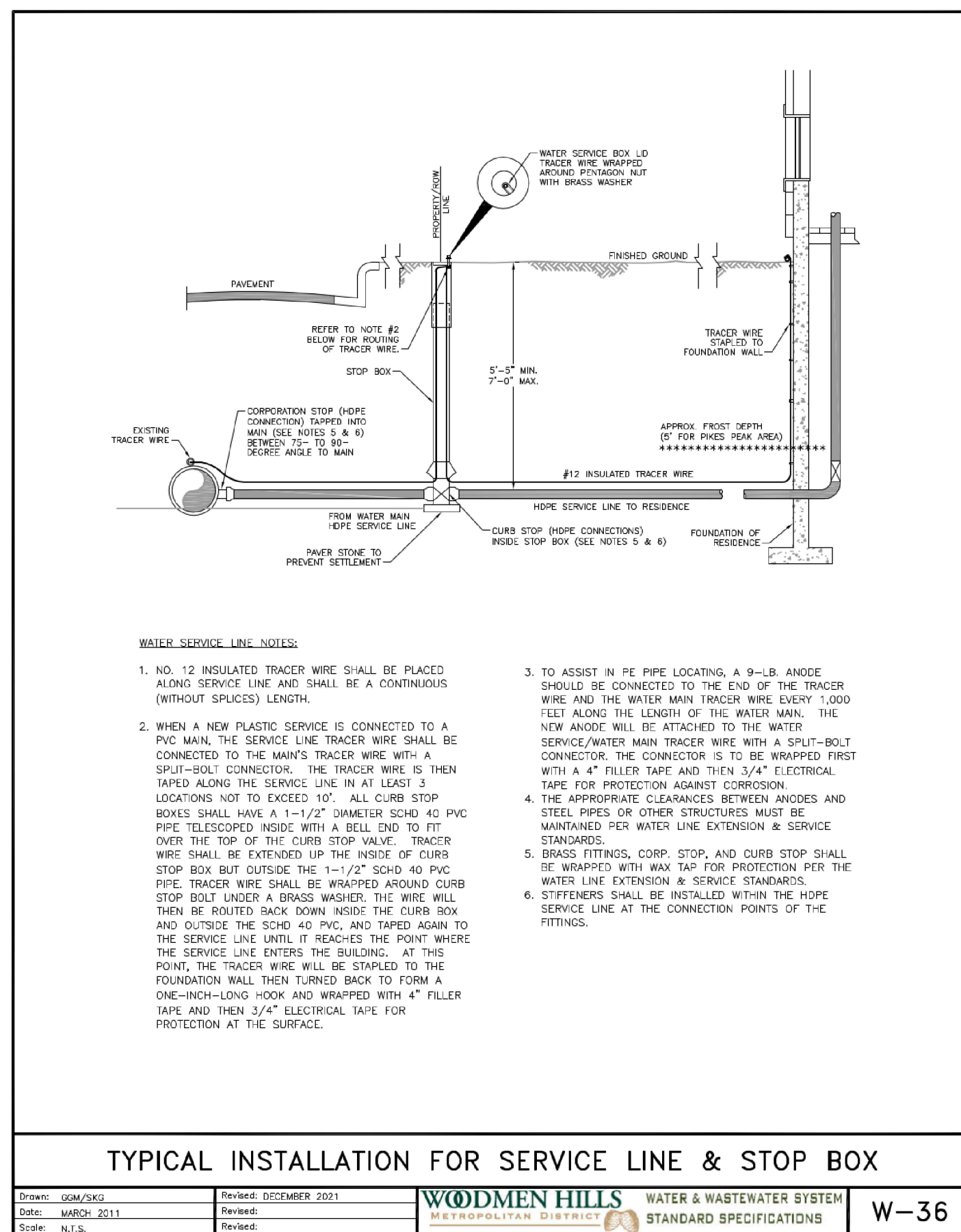
RESTRAINED PIPE LENGTH (FT) W/ MECHANICAL JOINT RESTRAINTS

L = MINIMUM RESTRAINED PIPE LENGTH

PIPE DIAMETER	45° BEND			22-1/2° BEND			11-1/4° BEND			HEAD-END VALVE OR FLANGE TO INCLUDE (PULVE VALVES (SEE NOTE 7))			
	<100	100-150	150-200	<100	100-150	150-200	<100	100-150	150-200				
6-INCH DUCTILE IRON AND PVC	6	9	12	3	5	6	2	3	3	4	63	94	125
8-INCH DUCTILE IRON AND PVC	8	12	16	4	6	8	2	3	4	6	89	133	177
12-INCH DUCTILE IRON AND PVC	12	17	23	6	8	11	3	4	6	8	117	177	243
16-INCH DUCTILE IRON AND PVC	15	22	29	7	11	14	4	5	7	9	133	207	283
20-INCH DUCTILE IRON AND PVC	18	26	35	9	13	17	4	6	8	11	159	251	343
24-INCH DUCTILE IRON AND PVC	20	30	40	10	15	20	5	7	10	14	195	303	413
30-INCH DUCTILE IRON AND PVC	24	36	48	12	18	24	6	9	12	18	251	393	523
36-INCH DUCTILE IRON AND PVC	28	42	56	14	20	27	7	10	14	21	307	473	633

NOTES:
 1. PRESSURE GREATER THAN 200 PSI REQUIRES SPECIAL DESIGN APPROVED BY THE DISTRICT.
 2. LENGTH IS BASED ON MINIMUM 5 FEET OF GROUND COVER AND COMPACTED SOIL. IF THE DEPTH IS LESS THAN 5 FEET, RESTRAINED LENGTH MUST BE DESIGNED BY THE DESIGN ENGINEER.
 3. RESTRAINED PIPE LENGTH APPLIES TO CONDITION WHERE NO CONCRETE THRUST REACTION BLOCK IS PRESENT.
 4. CALCULATIONS ARE BASED ON POORLY-GRADED SANDS, GRAVEL, AND GRAVEL-SAND MIXTURE. LITTLE OR NO FINES, TYPE 4 BEDDING CONDITIONS - "PIPE BEDDING IN SAND, GRAVEL, OR CRUSHED STONE TO A DEPTH OF 1/8 PIPE DIAMETER (4" MIN.)" FACTOR OF SAFETY 2:1.
 5. FIGURES ARE BASED ON DIP WRAPPED IN POLYETHYLENE MATERIAL.
 6. USE CBA FOR DOWN-TURNING BENDS.
 7. RESTRAINED LENGTH FOR DEAD END MAY BE USED AT THE DISCRETION OF THE DISTRICT.

Drawn: JDM
 Date: MARCH 2011
 Scale: N.T.S.
 Revised: DECEMBER 2001
 Revised: _____
WOODMEN HILLS WATER & WASTEWATER SYSTEM
 METROPOLITAN DISTRICT STANDARD SPECIFICATIONS W-13



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UTILITY CONSTRUCTION DRAWINGS
 MERIDIAN STORAGE
 MERIDIAN STORAGE, LLC
 SF-23-XXX
 STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
 EL PASO COUNTY, FALCON, CO 80931

#	Date	Issue / Description	Init.

Project No: MRS01
 Drawn By: JDM
 Checked By: CMWJ
 Date: UTIL

WATER DETAILS

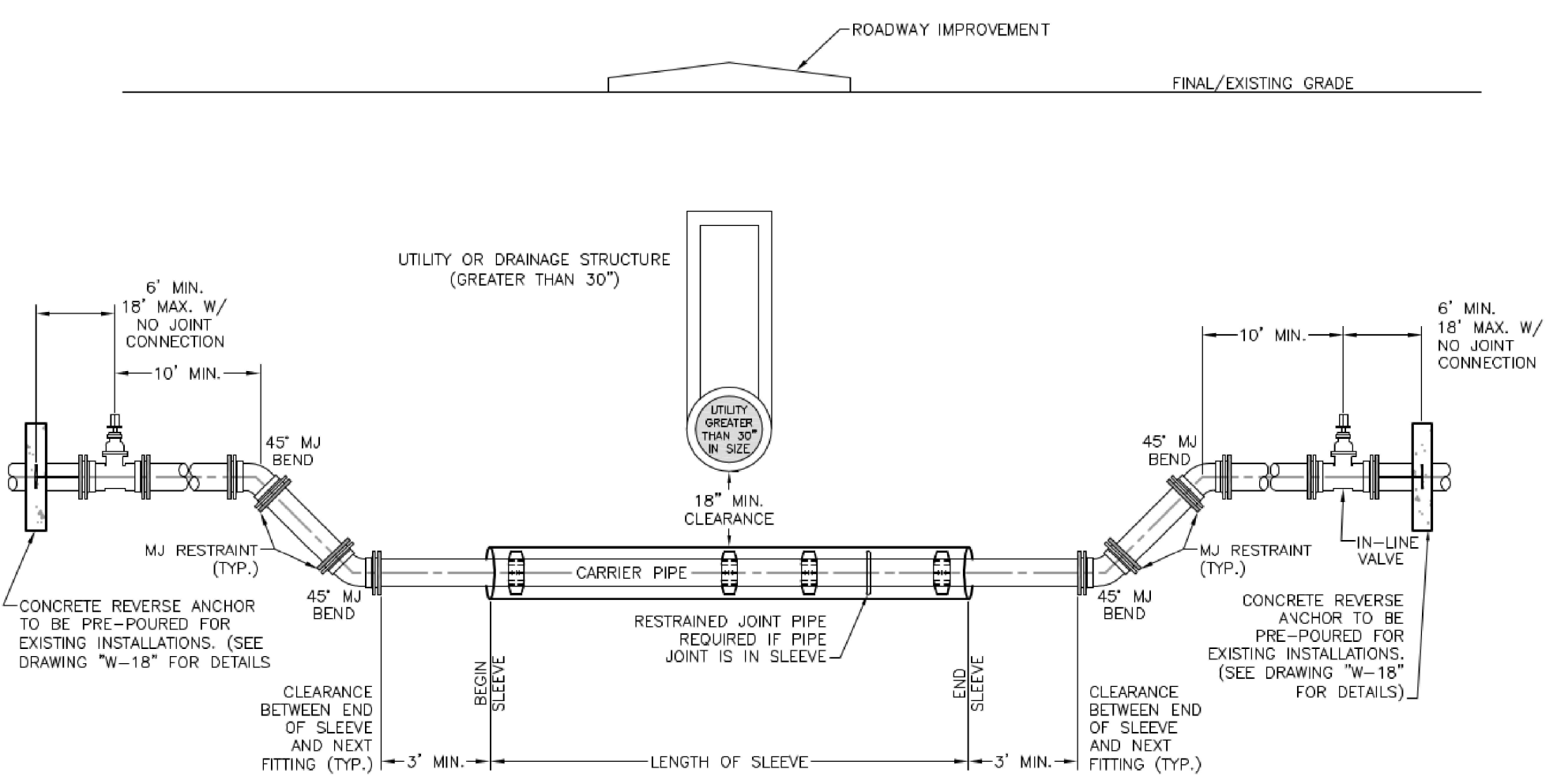
LOWERING DETAIL W/CASING UTILITY CROSSING GREATER THAN 30"

DATE: 2021 MARCH 30
 DRAWN: NLS

REVISED: 2021 DECEMBER 20
 PROJECT: WOODMEN HILLS METROPOLITAN DISTRICT

WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS

W-20

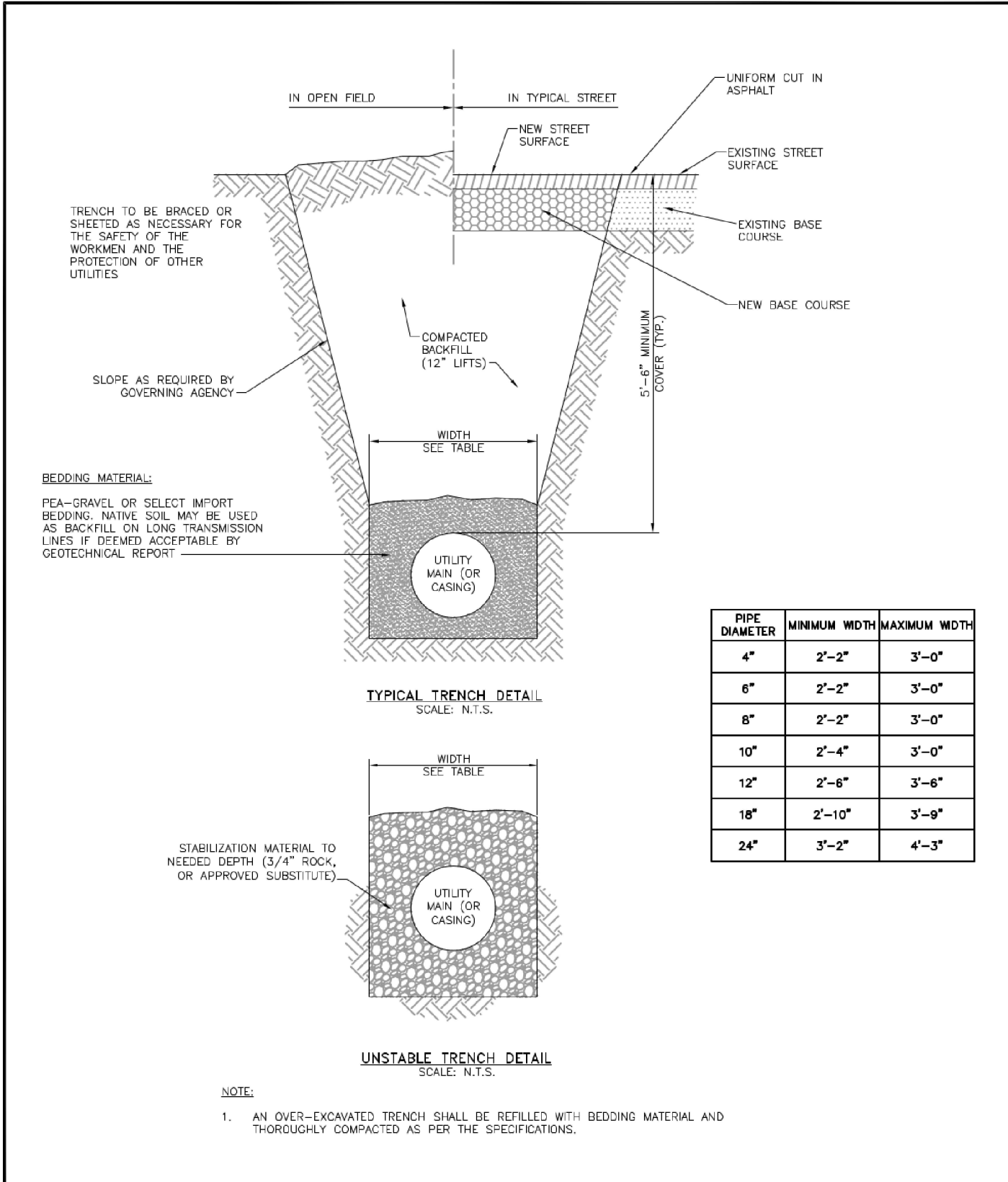


- NOTES:**
- 3/4" ALL-THREAD TO BE USED FROM VALVE TO REVERSE ANCHOR AND FROM UPPER BEND TO VALVE.
 - IF A JOINT IS LOCATED BETWEEN ANY FITTINGS INCORPORATED INTO THE LOWERING, BELL/JOINT RESTRAINTS MUST BE USED.
 - CASING PIPE MUST BE CLEAN AND FREE OF ALL DIRT AND DEBRIS BEFORE INSTALLING CARRIER PIPE AND BEFORE INSTALLING END SEALS.
 - CARRIER PIPE SHALL BE DIP, UNLESS OTHERWISE APPROVED.
 - FURNISH AND INSTALL JOINT BONDING, POLYETHYLENE TUBING, AND 17 LB. MAGNESIUM ANODE ON DIP LOWERING PER STANDARD SPECIFICATIONS.
 - FURNISH AND INSTALL ONE 17 LB. MAGNESIUM ANODE PER 20 FEET OR LESS OF CASING PIPE.
 - ENTIRE LENGTH OF LOWERING (FROM VERTICAL BEND TO LOWER VERTICAL BEND) SHALL REST ON 18" MINIMUM OF 3/4" ROCK BELOW CASING AND UP TO SPRINGLINE OF CASING AND CARRIER PIPE.

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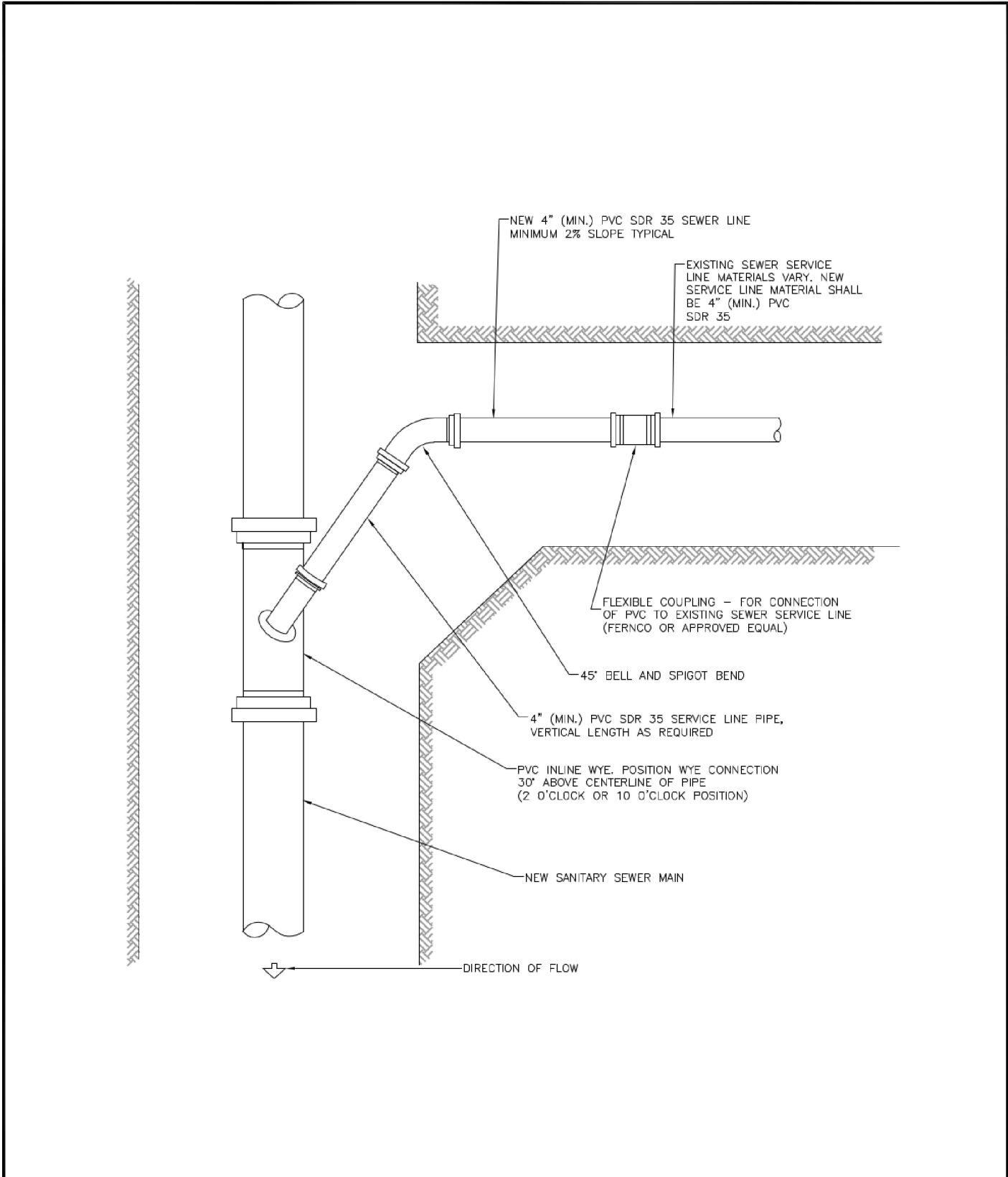


UTILITY CONSTRUCTION DRAWINGS
MERIDIAN STORAGE
MERIDIAN STORAGE, LLC
SF-23-XXX
STATE OF COLORADO, MERIDIAN ROAD & OWL PLACE
EL PASO COUNTY, FALCON, CO 80931



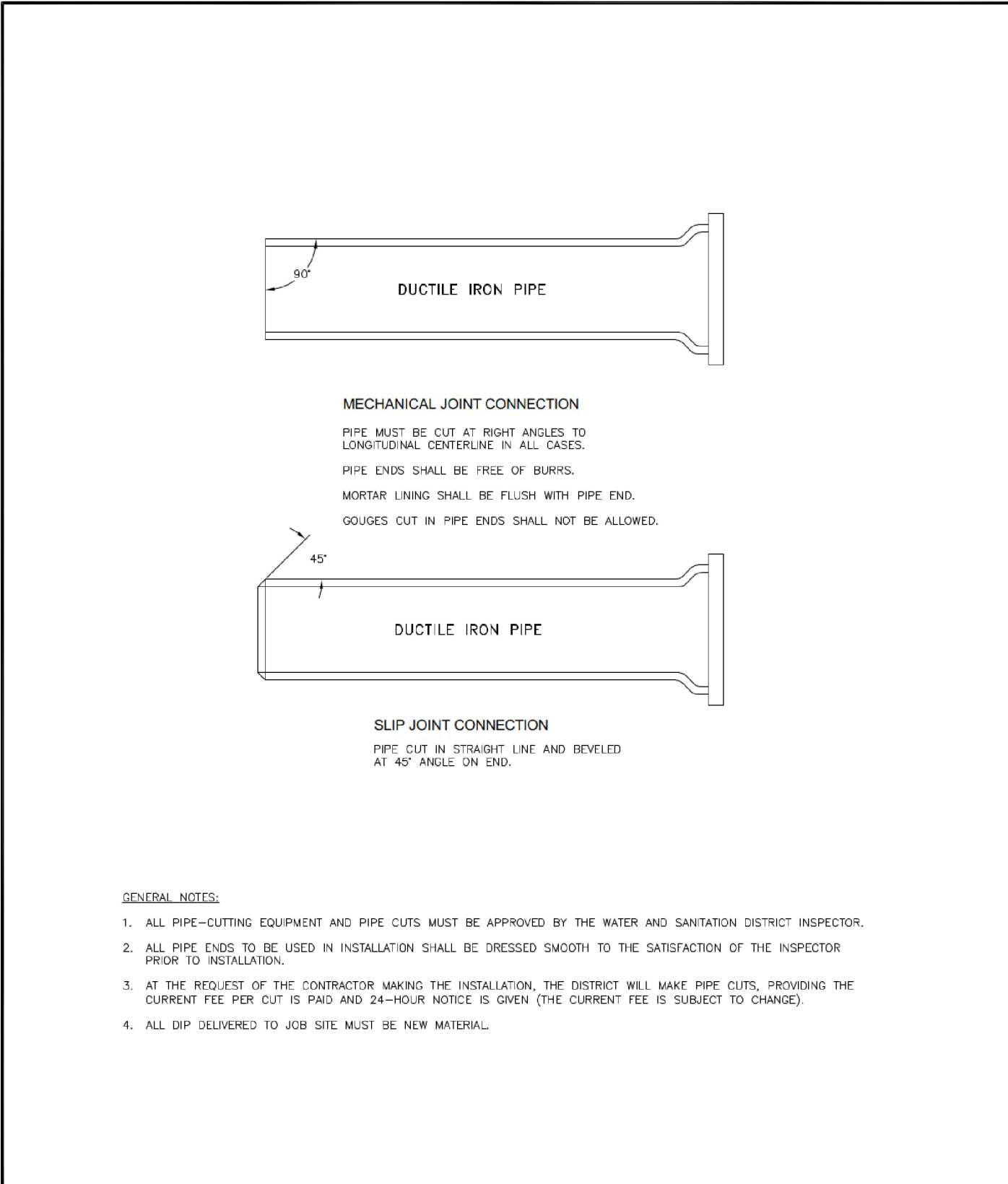
Drawn: gsm/ghg Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-1**



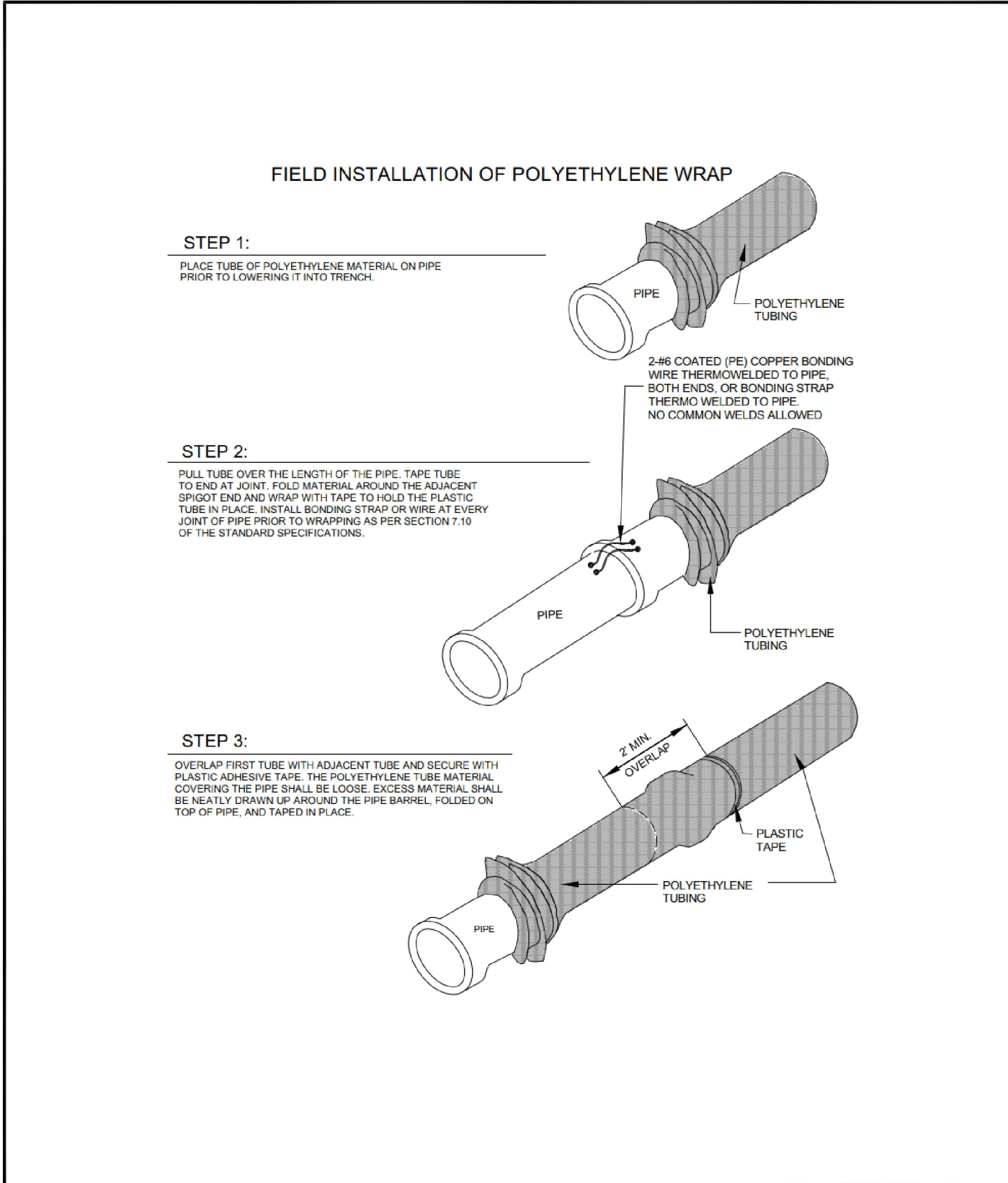
Drawn: gsm Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-4**



Drawn: gsm Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-8**



Drawn: gsm Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-9**

MAXIMUM PIPELINE DEFLECTION DATA

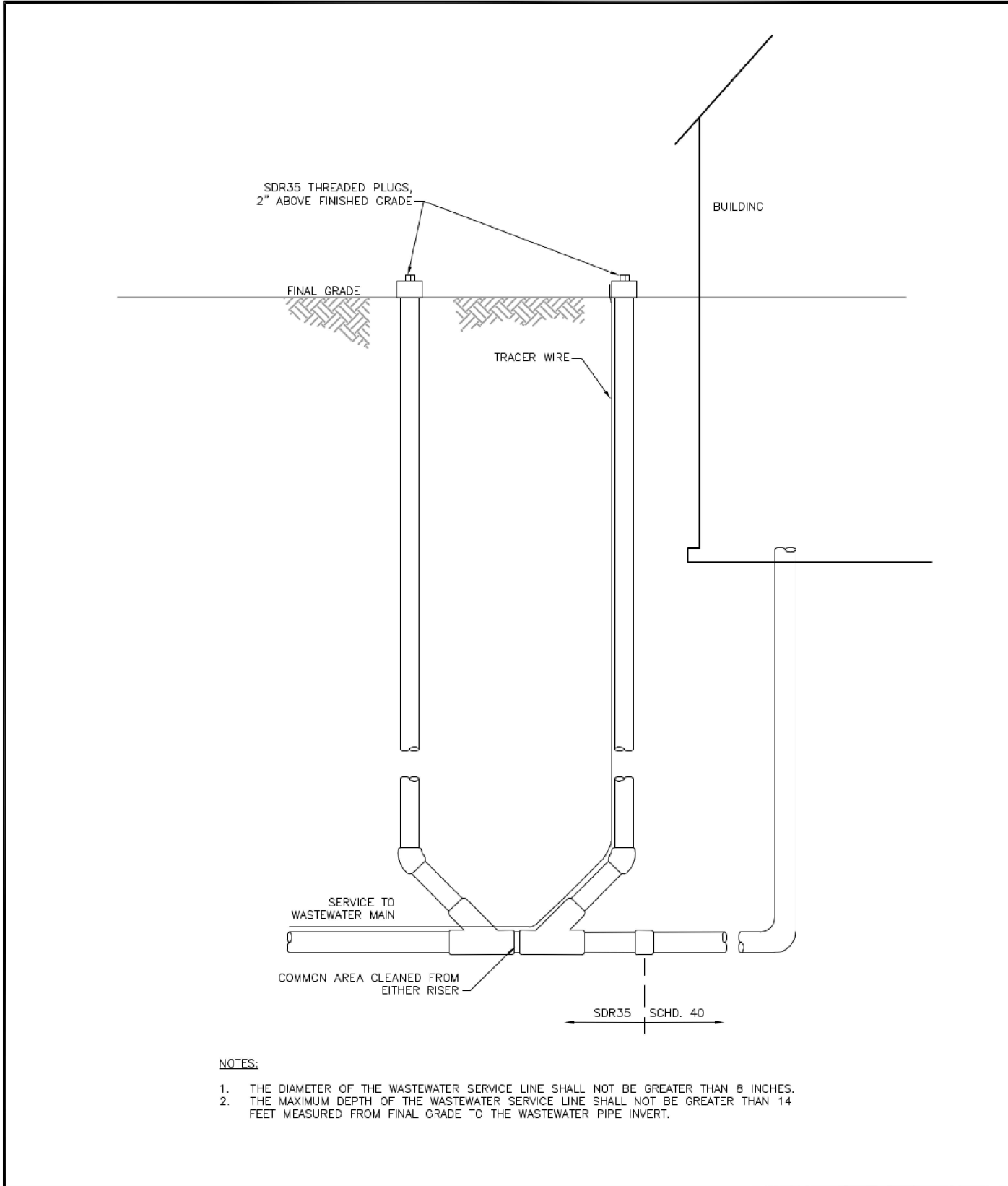
PER SLIP JOINT OF D.I.P.

PIPE DIAMETER	I.D. (IN)	O.D. (IN)	O.D. (FT)	M.F.R.S. DEF'L.	DESIGN DEFLECTION (80% MAX.)		APPROX. RADIUS FOR DEFLECTING CURVES (WITHOUT BENDS)	
					MAX. DEF. DIST.		20'L	18'L
					(1)	(2)		
4"	4.80"	.402'	5'00'00"	4'00'00"	18"	15"	286'	258'
6"	6.90"	.570'	5'00'00"	4'00'00"	18"	15"	286'	258'
8"	9.05"	.784'	5'00'00"	4'00'00"	18"	15"	286'	258'
10"	11.10"	.925'	5'00'00"	4'00'00"	18"	15"	286'	258'
12"	13.20"	1.100'	5'00'00"	4'00'00"	18"	15"	286'	258'
14"	15.30"	1.278'	3'00'00"	2'24'00"	10"	9"	477'	430'
16"	17.40"	1.450'	3'00'00"	2'24'00"	10"	9"	477'	430'
18"	19.50"	1.625'	3'00'00"	2'24'00"	10"	9"	477'	430'
20"	21.60"	1.800'	3'00'00"	2'24'00"	10"	9"	477'	430'
24"	25.80"	2.160'	3'00'00"	2'24'00"	10"	9"	477'	430'
30"	32.00"	2.668'	2'30'00"	2'00'00"	8"	7"	573'	516'
36"	38.30"	3.192'	2'00'00"	1'36'00"	6"	6"	716'	642'
42"	44.50"	3.708'	2'00'00"	1'36'00"	6"	6"	716'	642'

(1) 20'L = NORMAL 20-FOOT JOINT LAYING LENGTH
(2) 18'L = NORMAL 18-FOOT JOINT LAYING LENGTH

Drawn: gsm Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-11**



Drawn: gsm Revised: DECEMBER 2021
Date: MARCH 2011 Revised: _____
Scale: N.T.S. Revised: _____

WOODMEN HILLS WATER & WASTEWATER SYSTEM
METROPOLITAN DISTRICT STANDARD SPECIFICATIONS **WW-3**

#	Date	Issue / Description	Init.

Project No: MRS01
Drawn By: JDM
Checked By: CMWJ
Date: _____
Scale: _____
Revised: _____

WASTEWATER DETAILS

WOODMEN STORAGE, LLC, 15 Pine County, Meridian, Colorado Springs, CO 80920