

SUNSET, PLACID, CAMMY & CHULA WATER MAIN UPGRADES CITY OF MCCALL, 2022

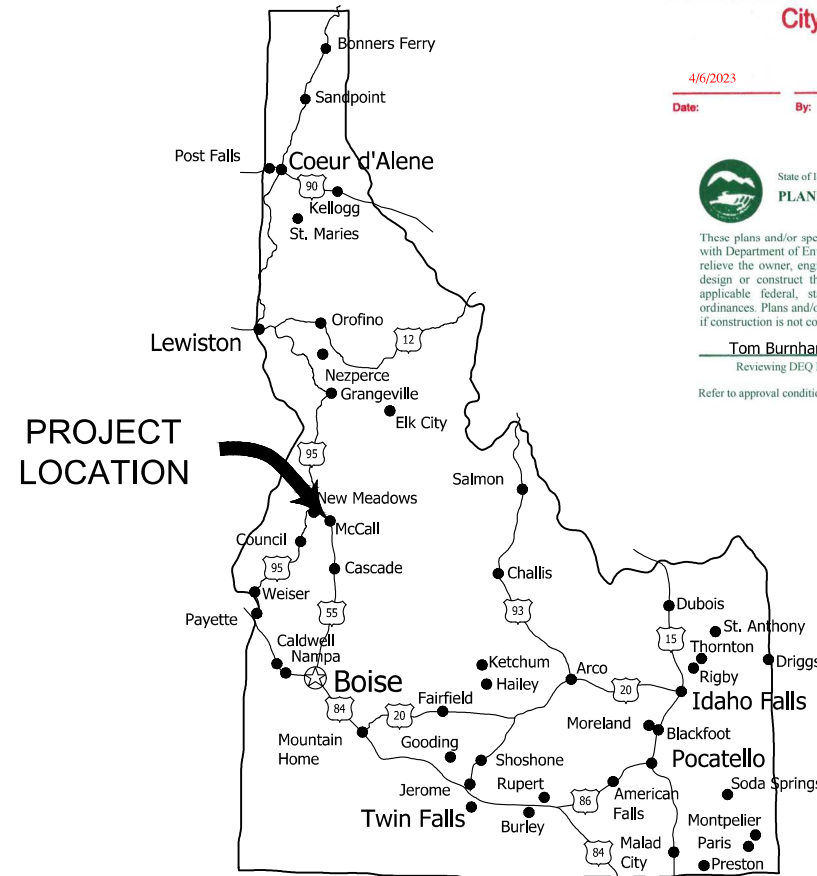
APPROVED FOR CONSTRUCTION
City of McCall

Date: 4/6/2023 By: Nathan Stewart
2023.04.06 17:18:07-0800

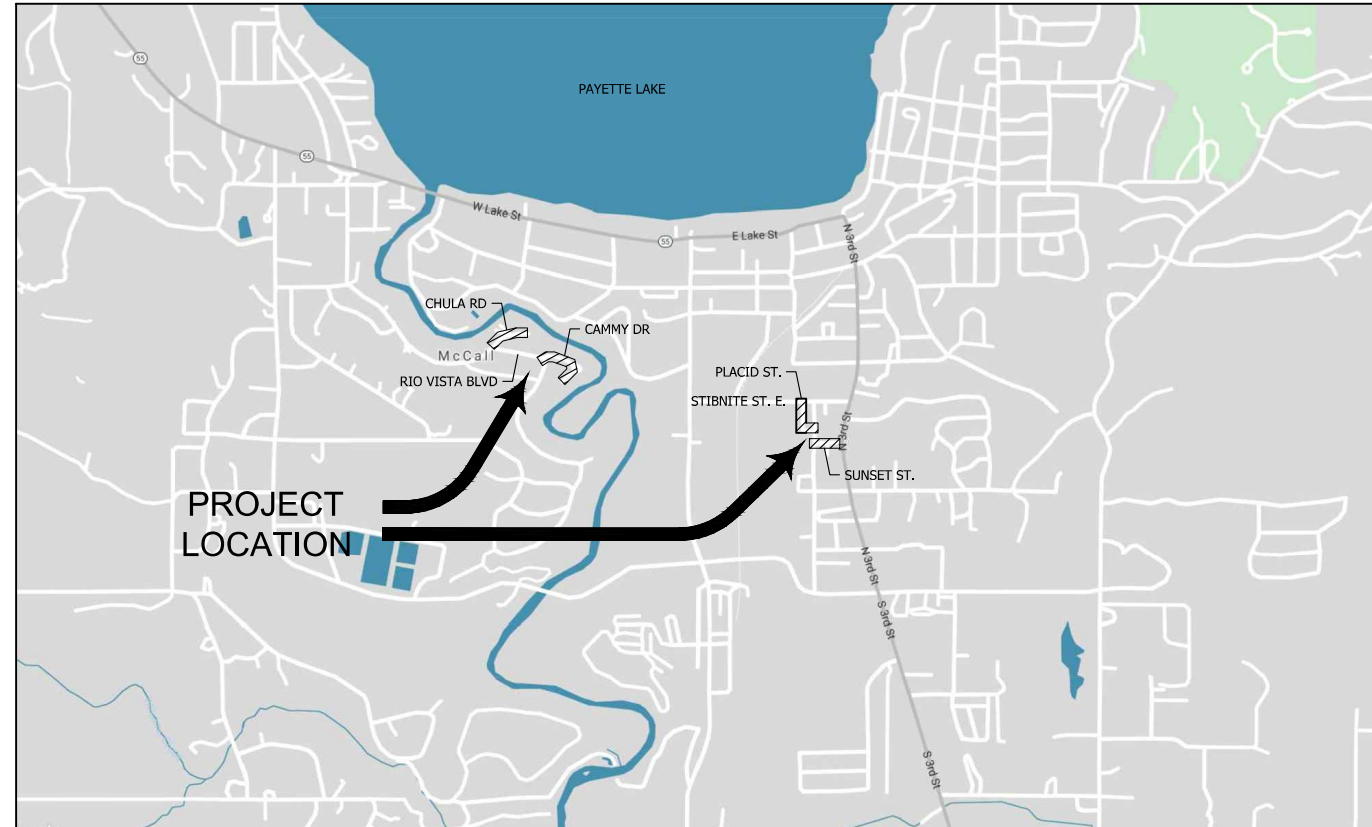


State of Idaho • Department of Environmental Quality
PLANS & SPECIFICATIONS REVIEW
These plans and/or specifications have been reviewed for compliance with Department of Environmental Quality rules. This review does not relieve the owner, engineer, or the contractor of the responsibility to design or construct these facilities in compliance with all current applicable federal, state, and local laws, rules, regulations, or ordinances. Plans and/or specifications must be resubmitted for review if construction is not completed within one year from approval date.

Tom Burnham, PE November 17, 2022
Reviewing DEQ Engineer: Approval Date:
Refer to approval conditions in letter to: Sabrina Sims



LOCATION MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE

ABBREVIATIONS

BP	BEGIN PIPE	IE	INVERT ELEVATION
BCY	BANK CUBIC YARDS	FG	FINISHED GRADE
BTM	BOTTOM	FL	FLOW LINE
CDF	CONTROLLED DENSITY FILL	FLG	FLANGE
CL	CENTERLINE	LF	LINEAR FEET
CLF	CHAIN LINK FENCE	MAX	MAXIMUM
CTR	CENTER	MJ	MECHANICAL JOINT
DIA	DIAMETER	MIN	MINIMUM
DI	DUCTILE IRON	PI	POINT OF INFLECTION
DIP	DUCTILE IRON PIPE	RCP	REINFORCED CONCRETE PIPE
ELEV	ELEVATION	PVC	POLYVINYL CHLORIDE
EP	END PIPE	SS	SANITARY SEWER
EX	EXISTING	SSL	SANITARY SEWER LATERAL
GB	GRADE BREAK	TYP	TYPICAL
GI	GRAVITY IRRIGATION	WSL	WATER SERVICE LINE
GSP	GALVANIZED STEEL PIPE		
ID	INSIDE DIMENSION		

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INDEX OF SHEETS

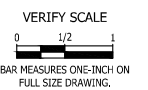
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SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
CITY OF MCCALL

COVER SHEET



REVISIONS	DATE	DESCRIPTION
0	10/24/22	ISSUED FOR BIDDING & CONSTRUCTION



PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

C001

GENERAL

- NO WATER FACILITIES SHALL BE CONSTRUCTED PRIOR TO RECEIPT OF IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY (IDEQ) OR QLPE APPROVAL.
- THE CONTRACTOR, ALL APPLICABLE SUBCONTRACTORS, THE PROJECT ENGINEER, THE FIELD ENGINEER, A CITY OF MCCALL PUBLIC WORKS REPRESENTATIVE AND UTILITY COMPANY REPRESENTATIVES SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY SHALL CONFORM TO THE CURRENT EDITION OF THE ISPPWC, CITY OF MCCALL (OWNER) AND PAYETTE LAKES RECREATIONAL WATER SEWER DISTRICT (PLRWS) STANDARDS, WHICHEVER IS MORE STRINGENT. NO EXCEPTIONS TO THESE STANDARDS WILL BE ALLOWED UNLESS SPECIFICALLY APPROVED IN WRITING BY THE PROJECT ENGINEER. ITEMS NOT SHOWN ON THE PLANS BUT THAT ARE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THESE STANDARDS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
- ALL MATERIALS IN CONTACT WITH POTABLE WATER MUST BE APPROVED BY THE NATIONAL SANITATION FOUNDATION (NSF) AND SHALL BE NEW AND NOT PREVIOUSLY USED UNLESS SPECIFIED OTHERWISE.
- CONTRACTOR SHALL FURNISH AND INSTALL EVERYTHING REQUIRED TO PROVIDE COMPLETE AND OPERABLE FACILITIES AS SHOWN HEREON. IF THERE IS AN OMISSION ON THE PLANS, SUCH OMISSION SHALL NOT BE CONSTRUED TO MEAN THAT THE CONTRACTOR IS NOT REQUIRED TO FURNISH OR PROVIDE EVERYTHING THAT IS NECESSARY TO PROVIDE COMPLETE AND OPERABLE FACILITIES.
- ANY CHANGES TO THE DESIGN AS SHOWN IN THESE CONSTRUCTION DRAWINGS MUST BE REVIEWED AND APPROVED BY THE FIELD ENGINEER BEFORE CHANGES ARE MADE. THIS INCLUDES CHANGES REQUESTED BY THE OWNER'S REPRESENTATIVE AND SUBCONTRACTORS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EXISTING MONUMENTS, OTHER SURVEY MARKERS, STREET SIGNS, UTILITIES, IRRIGATION LINES, PAVEMENT, TREES, FENCES, AND ANY OTHER IMPORTANT OBJECTS ON OR ADJACENT TO THE JOB SITE AS DETERMINED BY THE OWNER'S REPRESENTATIVE OR FIELD ENGINEER. THE CONTRACTOR SHALL KEEP A LIST OF ADDRESSES WHERE PROPERTY CORNER PINS ARE DISTURBED OR REMOVED FOR THE INSTALLATION OF WATER SERVICES AND PROVIDE TO THE OWNER. THE OWNER WILL REPLACE LOT PINS THAT ARE LOST AS NEEDED FOR CONSTRUCTION. ALL OTHER DISTURBANCES WILL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
- THE LOCATIONS OF KNOWN EXISTING UNDERGROUND UTILITIES ARE SHOWN AS AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR IS ADVISED THAT ADDITIONAL UTILITIES MAY EXIST INCLUDING, BUT NOT LIMITED TO; SEWER MAINS AND LATERALS, IRRIGATION, PRIVATE CABLE, GAS, FIBER OPTIC, PHONE AND UNDERGROUND POWER. THE CONTRACTOR SHALL INCLUDE COSTS FOR ALL UTILITY CROSSINGS IN THEIR BID PRICE AND SHALL MAKE REPAIRS FOR INCIDENTAL STRIKES AT NO ADDITIONAL COST TO THE OWNER. SEE WATER NOTE 27, THIS SHEET FOR PLRWS SEWER REPAIR INFORMATION.
- THE CONTRACTOR SHALL FIELD VERIFY SIZE, TYPE AND LOCATION OF EXISTING WATER LINES AT TIE-INS PRIOR TO ORDERING FITTINGS.
- THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS REQUIRED THROUGHOUT THE ENTIRETY OF THE PROJECT. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE OWNER OR OWNER'S ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING. CONTRACTOR SHALL COORDINATE ALL CLOSURES TO PRIVATE DRIVEWAYS WITH THE PROPERTY OWNER. TRAFFIC CONTROL SHALL BE PER THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND TS-1 OF THE PROJECT SPECIFICATIONS.
- THE CONTRACTOR WILL PROVIDE CONSTRUCTION STAKING TO ESTABLISH HORIZONTAL AND VERTICAL CONTROL, IDENTIFY PROPERTY CORNERS AND RIGHTS-OF-WAY, AND OTHER CRITICAL LOCATIONS WITHIN THE PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RESTAKING OF LOST MARKERS AT NO COST TO THE OWNER. ALL STAKING SHALL BE CONSIDERED INCIDENTAL TO THE BID PRICE.
- CONTRACTOR SHALL CONTACT IDAHO DIG LINE (208) 342-1585 TO MARK AND IDENTIFY UNDERGROUND UTILITIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL LEGALLY DISPOSE OF ALL EXCESS MATERIAL. SEE SECTION GC - 5 .1 - GENERAL CONSTRUCTION REQUIREMENTS OF THE SPECIFICATIONS FOR DISPOSAL OF SUITABLE AND UNSUITABLE MATERIALS.
- ALL "OR EQUAL" ITEMS ARE SUBJECT TO REVIEW AND APPROVAL OF THE PROJECT ENGINEER.
- UPON THE COMPLETION OF WORK, THE CONTRACTOR SHALL SUBMIT A SET OF "RED-LINED" RECORD DRAWINGS TO THE FIELD ENGINEER.
- CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE OWNER PRIOR TO, DURING, AND AT THE COMPLETION OF CONSTRUCTION ACTIVITY. PROVIDE THE OWNER A MINIMUM 3-DAY NOTICE IF WATERLINE CONSTRUCTION WILL RESULT IN TEMPORARY SERVICE INTERRUPTION TO EXISTING CUSTOMERS.
- CONTRACTOR SHALL VERIFY EXISTING LOCATIONS, ELEVATIONS, AND MATERIAL TYPES OF ALL UTILITIES AND FEATURES WHERE PROPOSED IMPROVEMENTS CONNECT. NOTIFY FIELD ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL PROVIDE THE FIELD ENGINEER WITH A MINIMUM 48-HOUR NOTICE PRIOR TO REQUIRED INSPECTIONS. THE CONTRACTOR SHALL VERIFY INSPECTION REQUIREMENTS WITH OWNER AND THE FIELD ENGINEER.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL INCLUDE IN THEIR BID ALL COSTS REQUIRED FOR PERMITTING AND BONDING THE REQUIRED IMPROVEMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED TO LEGALLY CONSTRUCT THE PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE REQUIRED PIPELINE TESTING.
- CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO RESOLVE CONFLICTS INCLUDING BUT NOT LIMITED TO OVERHEAD UTILITIES, TREE TRIMMING AND REMOVAL.
- IF ANY ITEMS OF SUSPECTED HISTORICAL OR ARCHAEOLOGICAL VALUE ARE UNCOVERED DURING CONSTRUCTION, THE CONTRACTOR WILL BE REQUIRED TO STOP WORK AND CONTACT THE OWNER AND THE STATE HISTORICAL PRESERVATION OFFICE.
- CONTRACTOR SHALL CONFORM TO OSHA AND OTHER LOCAL, STATE AND FEDERAL REQUIREMENTS WHEN REMOVING ASBESTOS CEMENT PIPE AND MATERIALS.
- IF DURING CONSTRUCTION OF THE PROJECT, AN UNDERGROUND STORAGE TANK, BURIED DRUM, OTHER CONTAINER, CONTAMINATED SOIL, OR DEBRIS NOT SCHEDULED FOR REMOVAL UNDER THE CONTRACT IS DISCOVERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER. NO ATTEMPT SHALL BE MADE TO EXCAVATE, OPEN, OR REMOVE SUCH MATERIAL WITHOUT WRITTEN APPROVAL.
- CITY OF MCCALL RIGHT OF WAY'S MAY BE UTILIZED AS CONSTRUCTION STAGING AREAS.

WATER

- CONSTRUCTION OF THE WATER SYSTEM SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE STANDARDS AND SPECIFICATIONS REFERRED TO IN GENERAL CONSTRUCTION NOTE 3.
- ALL WATER WORKS COMPONENTS SHALL BE ANSI/NSF CERTIFIED AND MUST MEET ALL AWWA STANDARD REQUIREMENTS OF THE IDAHO RULES FOR DRINKING WATER SYSTEMS (IDAPA 58.01.08).
- ALL WATER LINE TESTING SHALL BE IN ACCORDANCE WITH THE TESTING REQUIREMENTS IN SECTION 401 OF THE ISPPWC. THE FIELD ENGINEER AND AN OWNERS REPRESENTATIVE MUST BE PRESENT FOR THE TESTING. CONTRACTOR SHALL PROVIDE A MINIMUM 48-HOUR NOTICE PRIOR TO PLANNED TESTING. ALL WATER LINES, INCLUDING WATER MAINS AND WATER SERVICE LINES (FROM THE WATER MAIN TO THE METER) SHALL BE DISINFECTED, FLUSHED, AND PRESSURE TESTED.
- IN-LINE GATE VALVES SHALL BE MJ X MJ. GATE VALVES AT FITTINGS MAY BE FL X MJ OR FL X FL (IF BETWEEN FITTINGS). SHORT SPOOL PIECES SHALL NOT BE USED BETWEEN FITTINGS AND VALVES. FOSTER ADAPTERS, FULLY RESTRAINED MAY BE USED WHERE WARRANTED WITH THE FIELD ENGINEER'S APPROVAL.
- CONTRACTOR SHALL PLACE VALVE BOXES OVER VALVES TO ENSURE 2" WATER KEY CAN REACH AND FULLY ENGAGE THE THE ACTUATOR (VALVE NUT) TO OPERATE THE VALVE.
- CONTRACTOR SHALL INSTALL ALL TEES LEVEL INCLUDING THE BRANCH OF THE TEE. 1° OF DEFLECTION BETWEEN THE EXTRUDING PIPE AND TEE SHALL BE ALLOWED.
- THE CONTRACTOR SHALL MAINTAIN ALL TEMPORARY SURFACE RESTORATION UNTIL PERMANENT RESTORATION IS COMPLETE.
- THE CONTRACTOR SHALL TAKE ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT FROM DAMAGE EXISTING IMPROVEMENTS WHICH ARE TO REMAIN. ALL IMPROVEMENTS DAMAGED BY THE CONTRACTOR'S OPERATIONS SHALL BE EXPEDITENTLY REPAIRED OR RECONSTRUCTED TO THE FIELD ENGINEER'S SATISFACTION, WITH NO ADDITIONAL COMPENSATION TO THE CONTRACTOR.
- POTABLE AND NON-POTABLE WATER LINE SEPARATION SHALL BE PER THE ISPPWC SD-407.

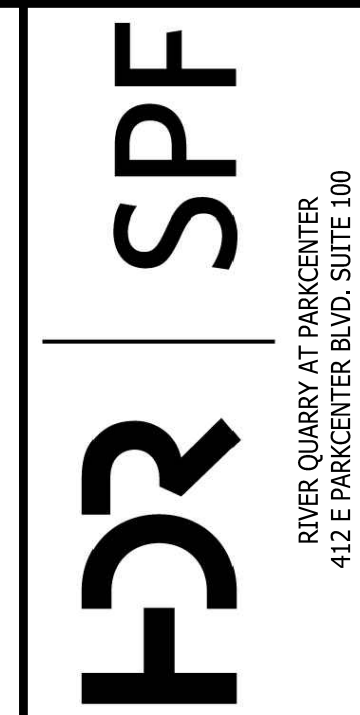
WATER (CONTINUED)

- ALL WATER LINES SHALL BE C900, DR-18 PVC. JOINTS SHALL MEET PERFORMANCE REQUIREMENTS OF ASTM D-3139. ALL GATE VALVES SHALL BE RESILIENT WEDGE SEATED C515 OR C509. ALL FITTINGS SHALL BE DUCTILE IRON, OR COMPACT DUCTILE IRON. ALL GATE VALVES SHALL INCLUDE VALVE BOX AND LID WITH CONCRETE COLLARS PER CITY OF MCCALL MSD-412.
- ALL FIRE HYDRANTS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF MCCALL STANDARD DRAWING MSD-408. PROPOSED FIRE HYDRANT LOCATIONS SHALL BE APPROVED BY THE CITY OF MCCALL PRIOR TO INSTALLATION.
- WATER LINES AND FIRE HYDRANT LATERALS SHALL BE INSTALLED AT A MINIMUM COVER OF SIX (6) FEET, AND HAVE TYPE III BEDDING (SAND) UNLESS DIRECTED OTHERWISE. GRAVEL CHIPS MAY BE USED FOR BEDDING WHERE GROUNDWATER IS PRESENT.
- LOCATING WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES, FIRE HYDRANTS, AND METER BOXES. ON VALVE BOXES, IT SHALL EXTEND ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOX, ROUTED THROUGH A DRILLED HOLE AND PCV VALVE GROMMET IN THE UPPER PORTION OF THE VALVE BOX, LEAVING A 3 FOOT COIL INSIDE. ON FIRE HYDRANTS, IT SHALL BE WRAPPED AND TIED AT THE BASE OF THE UPPER SECTION.
- ALL WATER LINES SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH ISPPWC SPECIFICATIONS 404 & 405 AND AWWA C-651. CHLORINATED WATER SHALL NOT BE DISCHARGED TO A STREAM, IRRIGATION DITCH OR OVER VEGETATED AREAS.
- THRUST BLOCKS SHALL MEET THE REQUIREMENTS OF SD-403 AND WILL BE INCIDENTAL TO CONSTRUCTION OF THE WATER MAIN PIPE OR FITTINGS. THRUST BLOCKS MUST BE POURED FROM A CONCRETE BATCH TRUCK. HAND MIXED CONCRETE WILL NOT BE ALLOWED. MEGA-LUG OR OTHER MECHANICAL RESTRAINTS MAY BE USED IN ADDITION TO THRUST BLOCKS IF CONTRACTOR DESIRES, BUT WILL NOT BE ACCEPTED AS A SUBSTITUTION.
- ALL HORIZONTAL BENDS SHALL HAVE THRUST BLOCKS THAT MEET THE REQUIREMENTS OF SD-403 OF THE ISPPWC.
- ALL VERTICAL BENDS SHALL BE MECHANICALLY RESTRAINED AND THRUST BLOCKED PER THE REQUIREMENTS OF SD-403 OF THE ISPPWC.
- CONTRACTOR SHALL HAVE ALL MATERIALS AND EQUIPMENT AVAILABLE ONSITE TO LIMIT PLANNED SHUTDOWNS OF WATERLINE SERVICES TO NO MORE THAN 4-HOURS.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO PRIVATE OR PUBLIC PROPERTY AND SHALL RESTORE ALL SURFACES AND IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO, DITCHES, DRAINAGES, CULVERTS, FENCES, LANDSCAPING, SIGNS AND DRIVEWAYS TO A CONDITION EQUAL OR BETTER THAN EXISTED PRIOR TO CONSTRUCTION.
- ABANDONMENT PROCEDURES SHALL NOT OCCUR UNTIL REPLACEMENT WATER MAIN HAS BEEN CONSTRUCTED, TESTED, AND APPROVED FOR USE.
- TOP OF PIPE ELEVATIONS MAY NEED TO BE ADJUSTED TO AVOID CONFLICTS AT UTILITY CROSSINGS. EXPLORATORY EXCAVATIONS SHALL BE PERFORMED PRIOR TO LAYING NEW WATER LINE TO VERIFY EXISTING UTILITY DEPTHS.
- CONTRACTOR SHALL SALVAGE AND DELIVER ALL WATER APPURTENANCES TO THE OWNER IN A MEANS THAT RETAINS THE INTEGRITY OF THE APPURTENANCE.
- ABANDONMENT WITHIN CITY OF MCCALL RIGHT-OF-WAY: FOR ABANDONMENT OF EXISTING WATERLINES 6-INCH DIA. AND SMALLER ALL VALVES SHALL BE CLOSED AND VALVE BOXES/RISERS MUST BE COMPLETELY REMOVED AND BACKFILLED. ABANDONED WATERLINES OVER 6-INCHES IN DIAMETER MUST BE FILLED WITH FLOWABLE CONCRETE.
- ALL WATER SERVICE LINE FITTINGS SHALL BE BRASS IN ACCORDANCE WITH CITY OF MCCALL REQUIREMENTS.
- ALL CONNECTIONS TO WATER SERVICES TO BE INSPECTED BY THE OWNER OR OWNER AUTHORIZED PERSONS AND DOCUMENTED WITH PHOTOGRAPH PRIOR TO BACKFILLING.
- DEWATERING COSTS SHALL BE INCLUDED IN THE CONTRACTOR BID PRICE.
- ALL SEWER PIPES DAMAGED FROM INSTALLATION OF WATER MAINS, SERVICES, OR OTHER CONSTRUCTION MUST BE REPAIRED TO THE PLRWS STANDARD SPECIFICATIONS. PLRWS DOES NOT CURRENTLY ALLOW FLEXIBLE COUPLINGS FOR REPAIRS WITHIN THE ROW, FORD OR ROMAC RIGID COUPLERS MUST BE USED.

EROSION & SEDIMENT CONTROL (ESC)

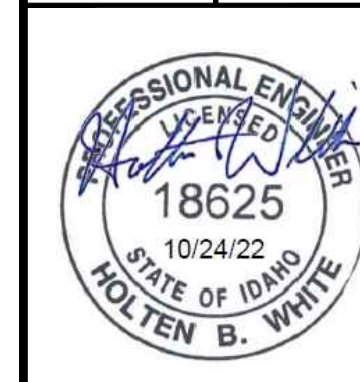
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEVELOPMENT AND IMPLEMENTATION OF ALL EROSION AND SEDIMENT CONTROLS IN ACCORDANCE WITH THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY'S (IDEQ) CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES AND THE CITY OF MCCALL DRAINAGE MANAGEMENT GUIDELINES. CONTRACTOR TO PREPARE AND SUBMIT THE PROPOSED EROSION AND SEDIMENT CONTROL (ESC) PLAN TO THE PROJECT ENGINEER OR FIELD ENGINEER AND THE CITY OF MCCALL FOR APPROVAL PRIOR TO STARTING CONSTRUCTION.
- THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF THE IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY'S (IDEQ) IDAHO POLLUTION DISCHARGE ELIMINATION SYSTEM (IPDES) GENERAL PERMIT FOR DISCHARGES FROM CONSTRUCTION ACTIVITIES. CONTACT THE IDEQ BOISE REGIONAL OFFICE TO DETERMINE WHETHER THIS PROJECT WILL REQUIRE AN IPDES PERMIT - (208) 373-0502.
- ALL EROSION CONTROL BMP'S SHALL BE INSTALLED PRIOR TO THE START OF ANY PROJECT CONSTRUCTION OR EARTH DISTURBING ACTIVITIES AND SHOULD REMAIN IN PLACE UNTIL ALL DISTURBED/EXPOSED AREAS HAVE BEEN STABILIZED AND/OR REVEGETATED AS DETERMINED BY THE ENGINEER.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES/STORMWATER BEST MANAGEMENT PRACTICES (BMP'S) IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
- REFER TO THE "IDEQ'S CATALOG OF STORMWATER BEST MANAGEMENT PRACTICES FOR IDAHO CITIES AND COUNTIES" AND THE CITY OF MCCALL DRAINAGE MANGEMENT GUIDELINES FOR FURTHER DETAILS ON BMP IMPLEMENTATION AND INSTALLATION.
- FOR TRENCH DEWATERING, IF NOT COVERED BY OTHER PERMITS, THE CONTRACTOR SHALL CONTACT THE IDEQ BOISE REGIONAL OFFICE PRIOR TO THE START OF CONSTRUCTION TO SEE IF AN IDAHO POLLUTION DISCHARGE ELIMINATION SYSTEM (IPDES) PERMIT WILL BE REQUIRED. CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE PROJECT ENGINEER AND THE CITY OF MCCALL PRIOR TO COMMENCEMENT OF DEWATERING OPERATIONS.
- CONTRACTOR SHALL CONTROL SURFACE DRAINAGE FROM EXCAVATION, BORROW AND WASTE DISPOSAL AREAS, AS WELL AS PROVIDE CONTROL STRUCTURES AS NECESSARY TO PREVENT CONTAMINATED RUNOFF FROM LEAVING THE PROJECT SITE.
- CONTRACTOR SHALL MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY TIME.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL ENTRANCES/EXITS TO THE SITE AND CONSTRUCTION STAGING AREAS.
- CONTRACTOR TO PROVIDE TEMPORARY MEASURES SUCH AS BERMS, DIKES, AND DRAINS AS NECESSARY, TO PREVENT RUNOFF FROM FLOWING INTO PIPE TRENCHES DURING CONSTRUCTION.
- DURING CONSTRUCTION, CONTRACTOR SHALL WATER ALL DISTURBED AREAS AS NECESSARY FOR DUST ABATEMENT.
- THE IMPLEMENTATION OF THE PROPOSED EROSION AND SEDIMENT CONTROL MEASURES INCLUDING CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL PROJECT CONSTRUCTION IS COMPLETED AND APPROVED BY THE OWNER.
- ALL STORMWATER, EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE REGULARLY INSPECTED AND MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.

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RIVER QUARRY AT PARKCENTER
412 E PARKCENTER BLVD, SUITE 100
BOISE, ID 83706

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
CITY OF MCCALL
GENERAL NOTES



REVISIONS	DESCRIPTION	DATE
0	ISSUED FOR BIDDING & CONSTRUCTION	10/24/22

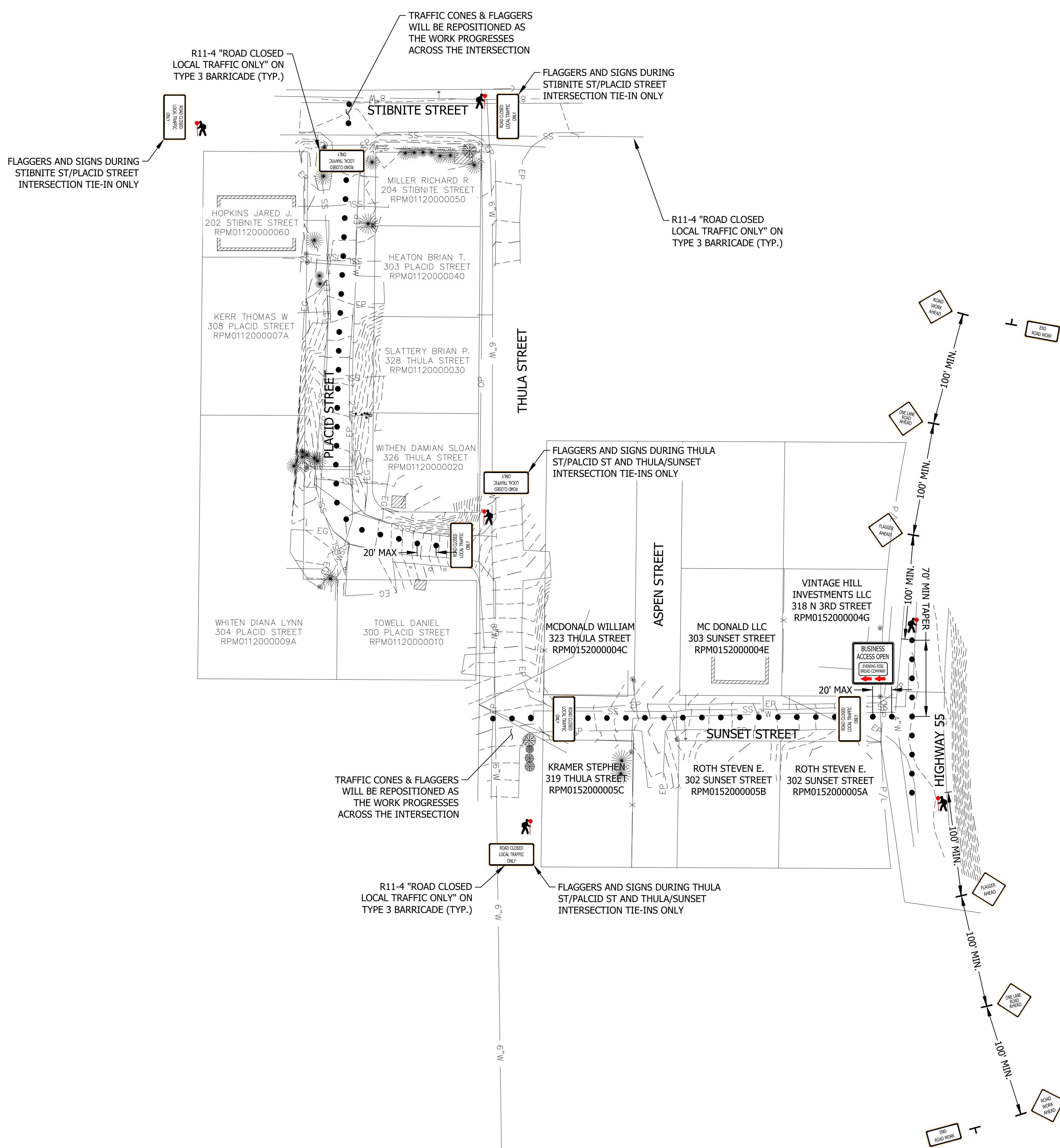
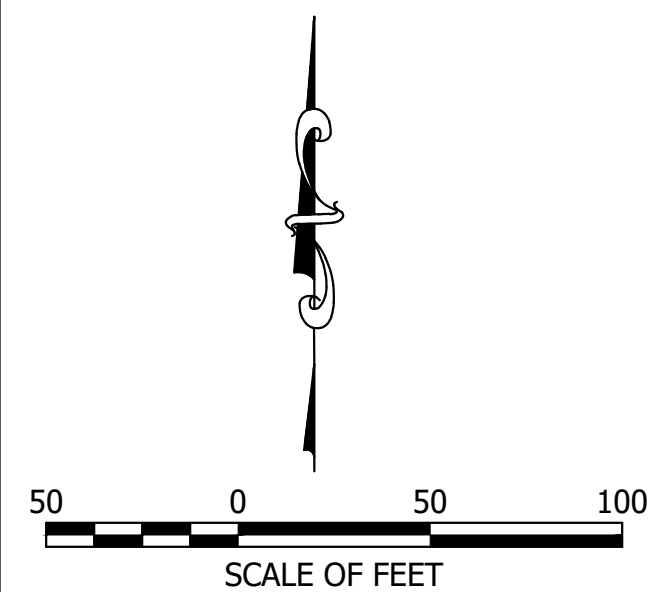
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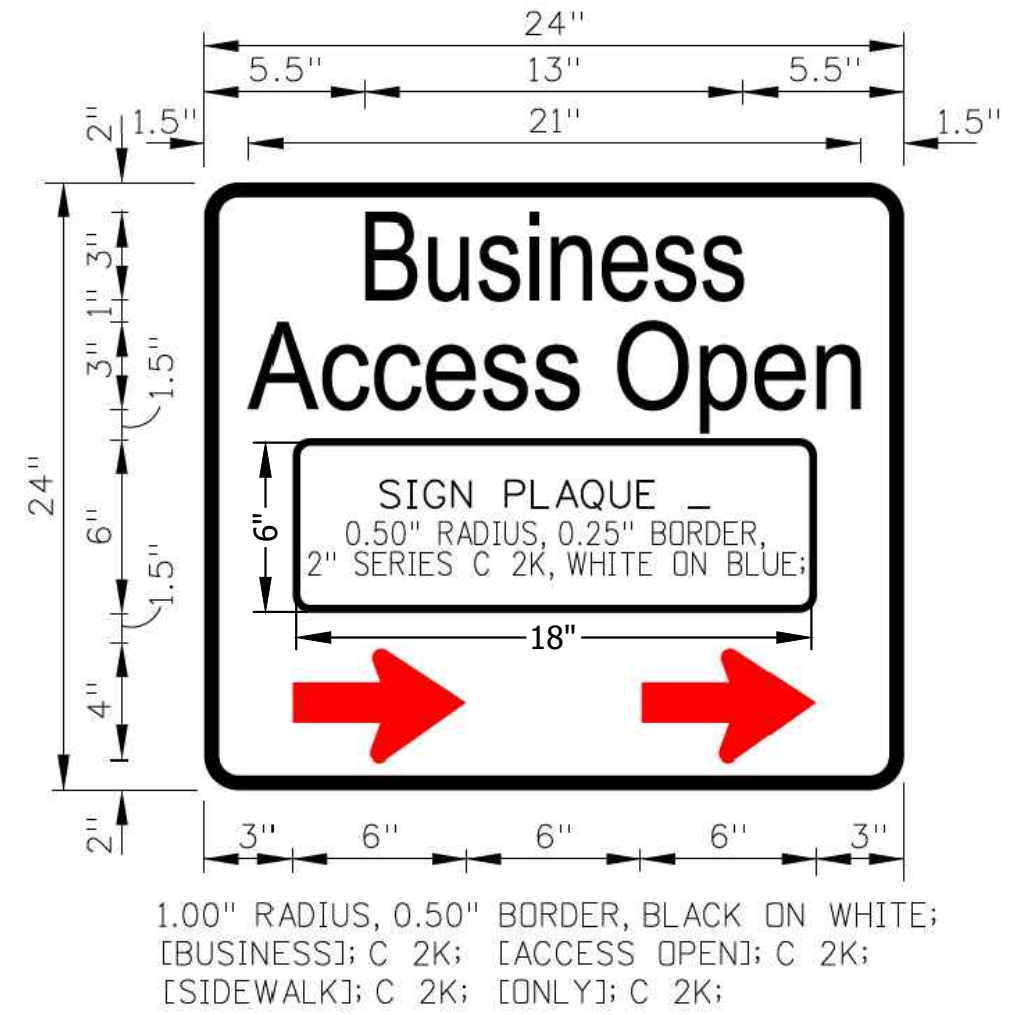
PROJECT: 608.0450
DESIGNED: HW
DRAWN: HW
CHECKED: MB

C002

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- GENERAL NOTES
1. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THEIR OWN TEMPORARY TRAFFIC CONTROL PLAN (TTCP) TO THE IDAHO TRANSPORTATION DEPARTMENT (ITD) TO MEET THE REQUIREMENTS OF THE ITD ROW ENCROACHMENT PERMIT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR SUBMITTING THE TTCP TO THE CITY TO MEET THEIR REQUIREMENTS. THIS SHEET IS FOR REFERENCE ONLY TO DEMONSTRATE A POTENTIAL TRAFFIC CONTROL SOLUTION.
 2. CONTRACTOR SHALL SUPPLY ALL TRAFFIC CONTROL DEVICES SPECIFIED IN THE APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
 3. ALL TEMPORARY TRAFFIC CONTROL DEVICES IMPLEMENTED SHALL MEET THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 STANDARDS.
 4. "ROAD CLOSED LOCAL TRAFFIC ONLY" SIGNS SHALL BE ACCOMPANIED BY APPROPRIATE WARNING AND DETOUR SIGNS WHERE APPLICABLE.
 5. TRAFFIC CONES AND FLAGGERS WILL BE REPOSITIONED AS THE WORK PROGRESSES TO MINIMIZE TRAFFIC IMPACTS WHILE MAINTAINING A SAFE WORK ZONE AND TRAFFIC PATTERNS.
 6. PLACE TRAFFIC CONES OR BARRELS AS DIRECTED BY THE CONSTRUCTION MANAGER TO SEPARATE AND PROTECT THE GENERAL PUBLIC FROM ENTERING THE WORK SITE I.E. OPEN EXCAVATIONS.
 7. CONTRACTOR TO PROVIDE BUSINESS ACCESS DURING CONSTRUCTION. A 72-HOUR NOTICE SHALL BE GIVEN TO THE CITY OR THE CITY'S ENGINEER FOR ANTICIPATED ACCESS CLOSURES.
 8. CONTRACTOR TO PROVIDE DOUBLE SIDED "BUSINESS ACCESS OPEN" SIGN FOR EVENING RISE BREAD COMPANY AT 303 SUNSET STREET AS SHOWN BELOW. MOUNT SIGN TO TYPE I BARRICADE. PLACE NEAR THE SUNSET STREET AND N 3RD STREET INTERSECTION WHERE IT CAN BE CLEARLY SEEN BY TRAFFIC ALONG N 3RD ST.



SPF
RIVER QUARRY AT PARKCENTER
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FOR

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
CITY OF MCCALL

SUNSET & PLACID TEMPORARY TRAFFIC CONTROL PLAN

PROFESSIONAL ENGINEER
18625
10/24/22
STATE OF IDAHO
FOLTEN B. WHITE

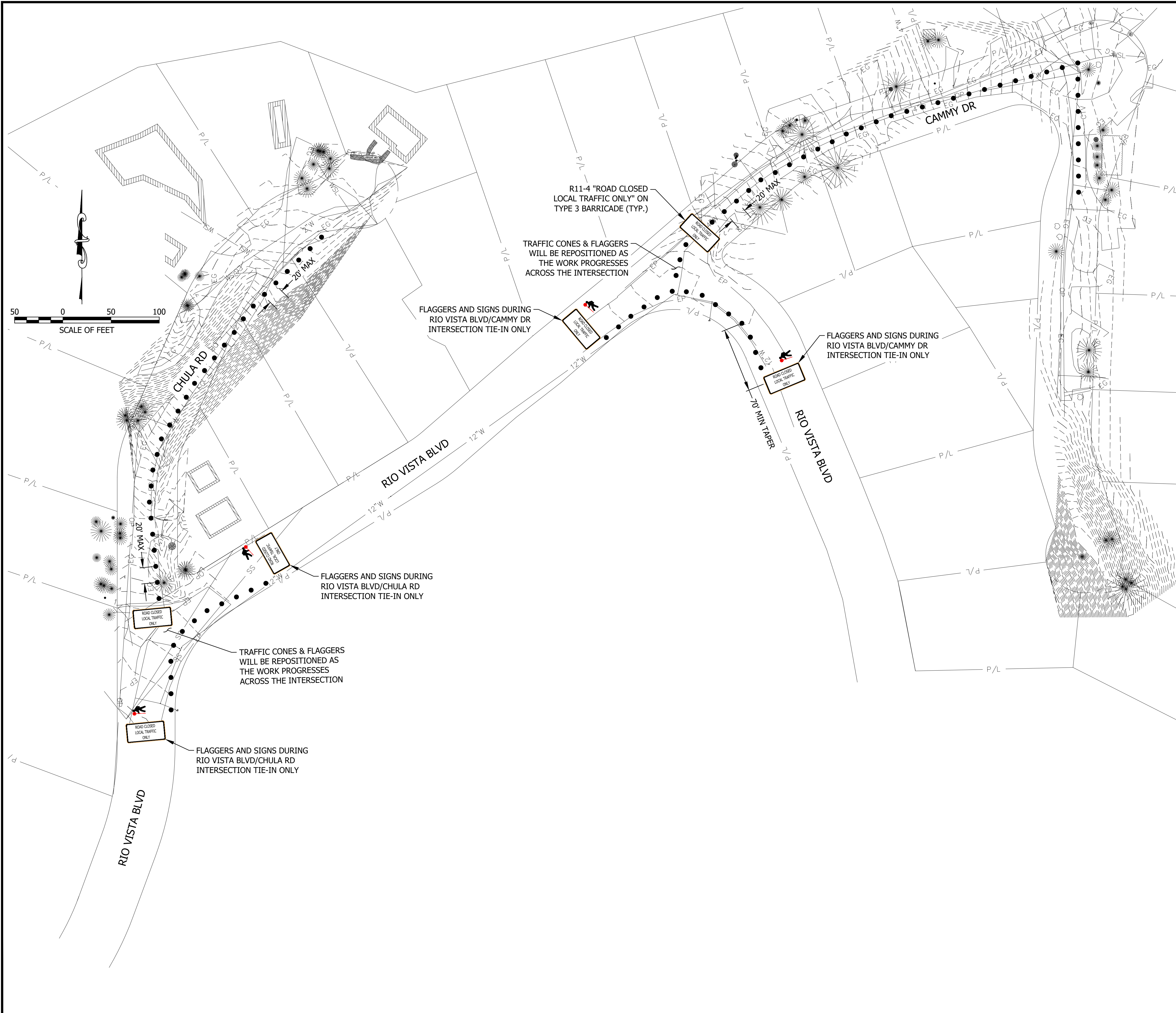
REVISIONS	DATE	DESCRIPTION
0	10/24/22	ISSUED FOR BIDDING & CONSTRUCTION

VERIFY SCALE
0 1/2 1
BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
DESIGNED: HW
DRAWN: HW
CHECKED: MB

C100

Path: S:\PROJECTS\TH Projects\H Projects\Horrocks Engineers_608\0460_TTCP_CAMMY CHULA SUNSET PLACID File: 608.0450 TTCP_CAMMY CHULA SUNSET PLACID Plot date: Nov 03, 2022-09:53:59am CAD User: HWHITE
 Xref Filename: [X-TITLE] X-EXIST]



GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING THEIR OWN TEMPORARY TRAFFIC CONTROL PLAN (TTCP) TO THE CITY OF MCCALL TO MEET THEIR REQUIREMENTS. THIS SHEET IS FOR REFERENCE ONLY TO DEMONSTRATE A POTENTIAL TRAFFIC CONTROL SOLUTION.
2. CONTRACTOR SHALL SUPPLY ALL TRAFFIC CONTROL DEVICES SPECIFIED IN THE APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES IMPLEMENTED SHALL MEET THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PART 6 STANDARDS.
4. "ROAD CLOSED LOCAL TRAFFIC ONLY" SIGNS SHALL BE ACCOMPANIED BY APPROPRIATE WARNING AND DETOUR SIGNS WHERE APPLICABLE.
5. TRAFFIC CONES AND FLAGGERS WILL BE REPOSITIONED AS THE WORK PROGRESSES TO MINIMIZE TRAFFIC IMPACTS WHILE MAINTAINING A SAFE WORK ZONE AND TRAFFIC PATTERNS.
6. PLACE TRAFFIC CONES OR BARRELS AS DIRECTED BY THE CONSTRUCTION MANAGER TO SEPARATE AND PROTECT THE GENERAL PUBLIC FROM ENTERING THE WORK SITE I.E. OPEN EXCAVATIONS.



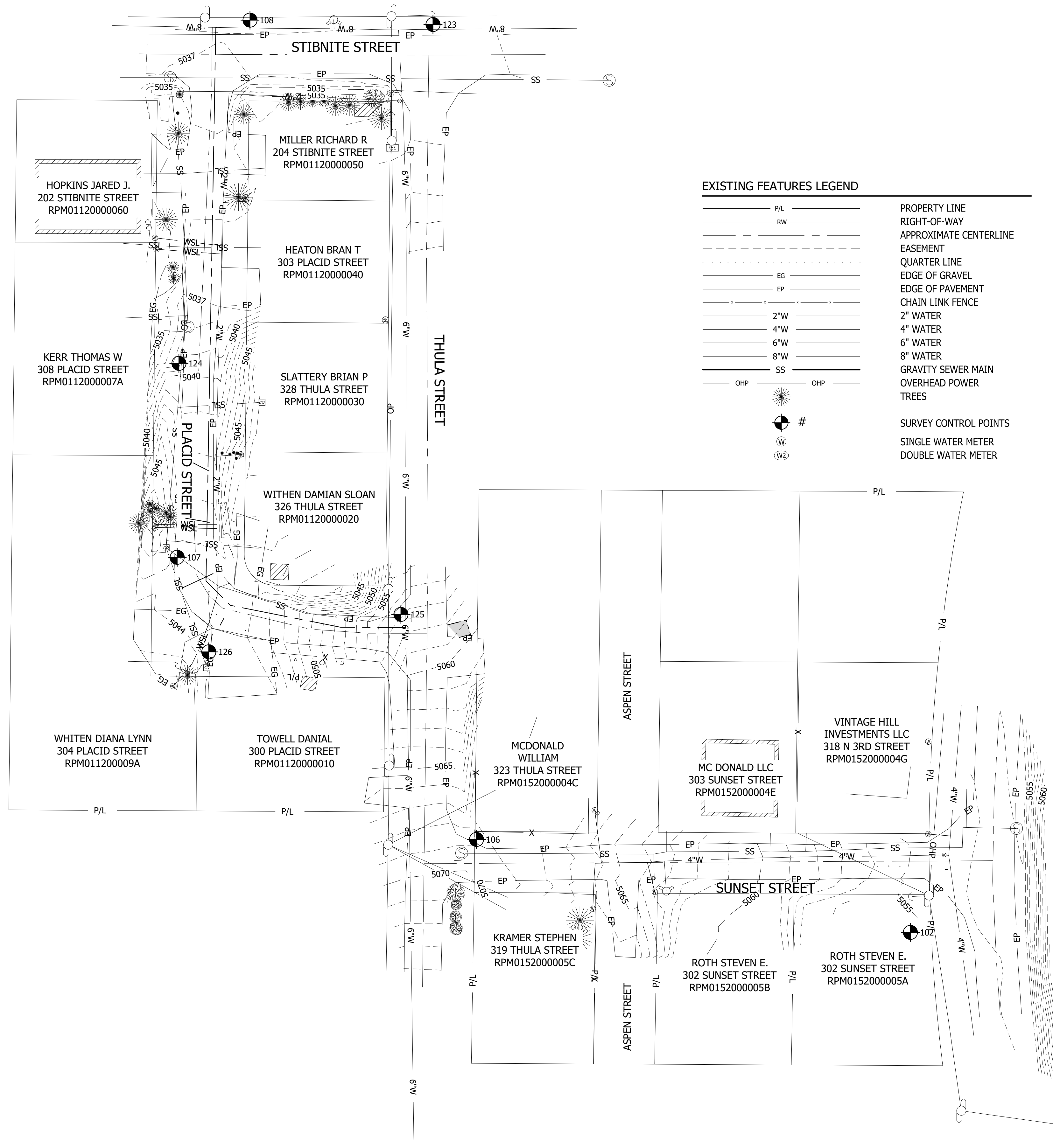
REVISIONS	DESCRIPTION	DATE
0	ISSUED FOR BIDDING & CONSTRUCTION	10/24/22

VERIFY SCALE

BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

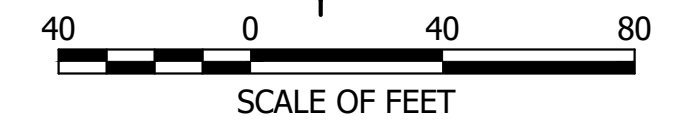
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DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

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 Xref File name: | X-TITLE | X-EXIST |



EXISTING FEATURES LEGEND

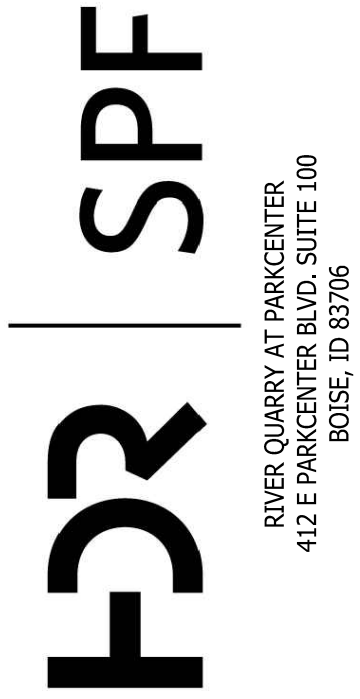
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- RW — RIGHT-OF-WAY
- - - - - APPROXIMATE CENTERLINE
- - - - - EASEMENT
- - - - - QUARTER LINE
- - - - - EDGE OF GRAVEL
- - - - - EP — EDGE OF PAVEMENT
- - - - - CHAIN LINK FENCE
- 2"W — 2" WATER
- 4"W — 4" WATER
- 6"W — 6" WATER
- 8"W — 8" WATER
- SS — GRAVITY SEWER MAIN
- OHP — OVERHEAD POWER
- OHP — OVERHEAD POWER
- ☀ # — SURVEY CONTROL POINTS
- ⊙ — SINGLE WATER METER
- ⊙ — DOUBLE WATER METER



Survey Control Point Table

Point #	Elevation	Northing	Easting	Description
101	5045.83	1180343.47	2534505.94	CP PK
102	5054.50	1179733.57	2534360.95	CP58TLG
106	5069.35	1179794.47	2534076.90	CP CIRS 58
107	5044.33	1179979.28	2533880.94	CP CIRS 58
108	5036.50	1180331.05	2533928.63	CP CIRS 58
123	5037.30	1180328.17	2534048.43	CP 60D NLS
124	5039.77	1180106.26	2533882.05	CP 60D NLS
125	5056.78	1179941.84	2534027.40	CP 60D NLS
126	5044.80	1179917.31	2533901.63	CP 60D NLS

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL



RIVER QUARRY AT PARKCENTER
 412 E PARKCENTER BLVD, SUITE 100
 BOISE, ID 83706



REVISIONS

ITEM	DESCRIPTION	DATE
0	ISSUED FOR BIDDING & CONSTRUCTION	10/24/22

VERIFY SCALE

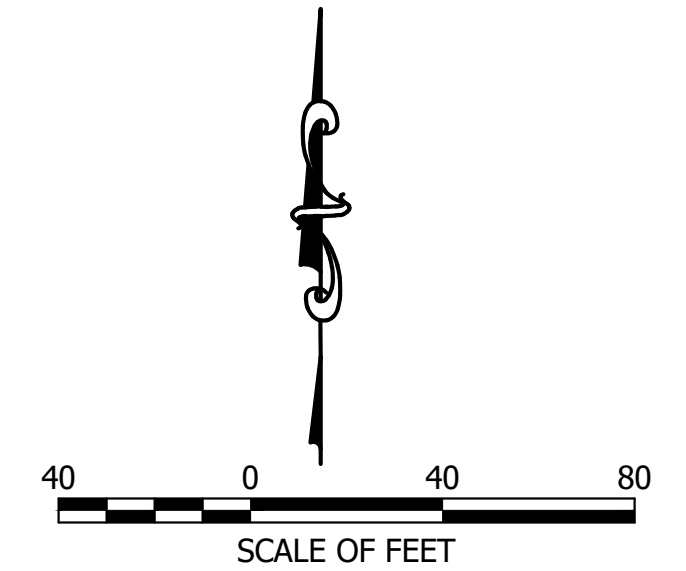
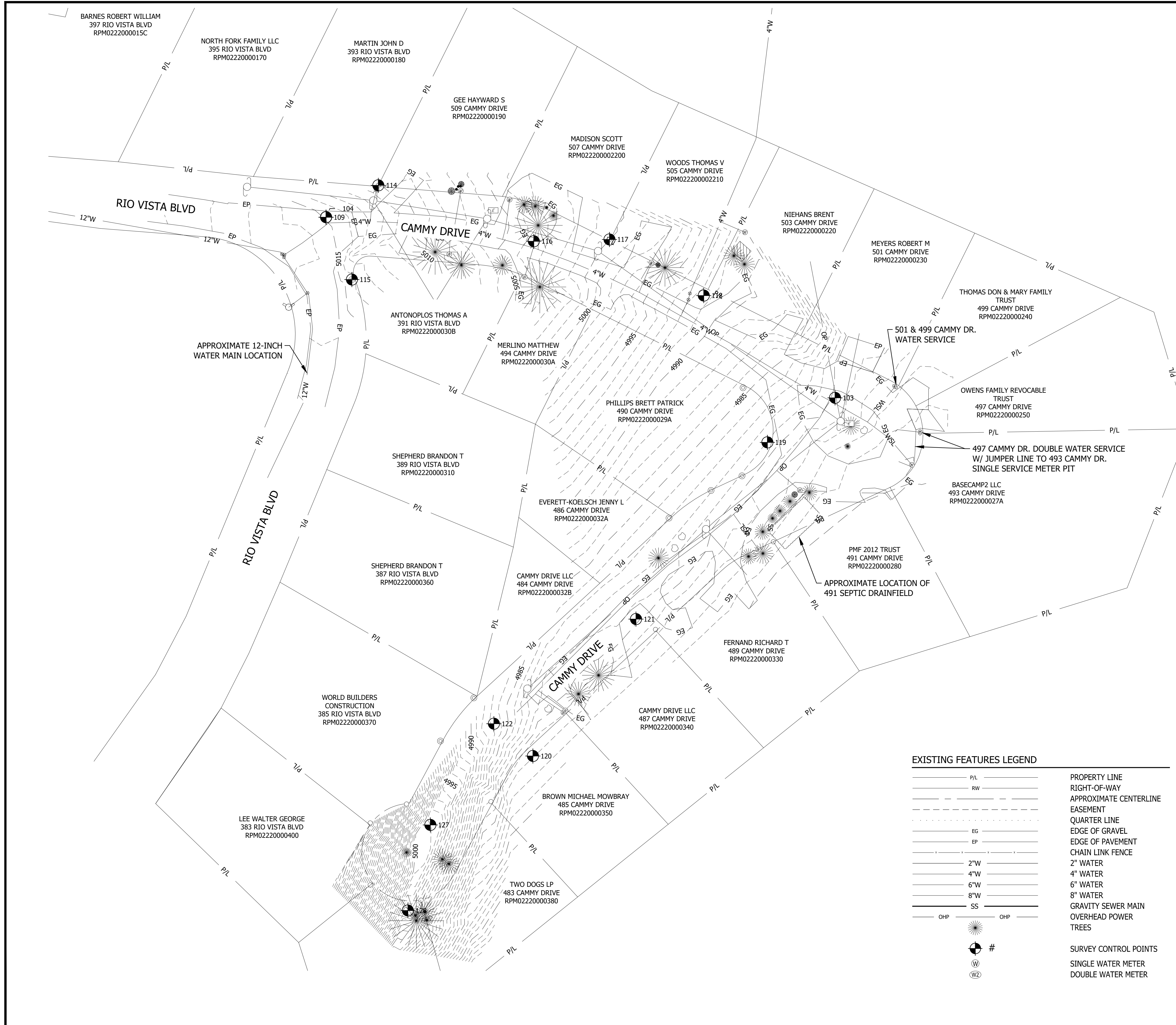
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PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

C101

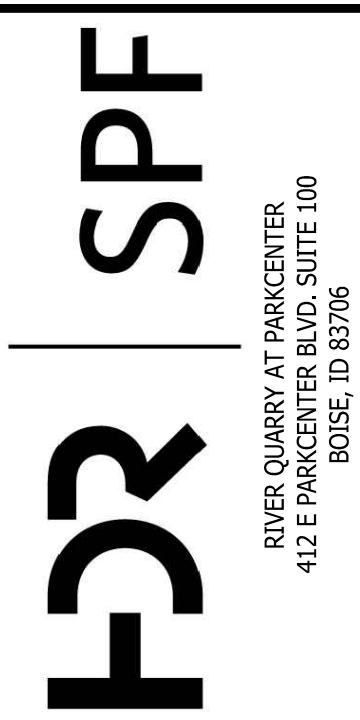
SUNSET PLACID SITE OVERVIEW & SURVEY CONTROL

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 Xref Filename: | X-TITLE | X-EXIST |



Survey Control Point Table				
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103	4979.87	1180771.86	2530986.06	CP58CAMMY
104	5014.85	1180920.02	2530568.66	PKCAMMYRIO
109	5015.00	1180920.02	2530568.58	CP MNLS
114	5010.67	1180946.12	2530611.52	IRF 12
115	5017.37	1180868.91	2530589.83	CIRF 58 PLS5357
116	5003.67	1180900.30	2530739.01	CP 60DNL
117	5000.54	1180901.74	2530801.07	IRF 12
118	4991.74	1180855.77	2530878.43	CIRF 12 PLS9585
119	4982.09	1180735.32	2530930.60	CP 60DNL
120	4977.80	1180478.14	2530738.31	CP 60DNL
121	4980.19	1180590.43	2530822.85	CP 60DNL
122	4986.55	1180504.61	2530706.29	CP 60DNL
127	4998.90	1180421.59	2530654.17	CP 60D NLS
128	4994.08	1180351.40	2530635.75	CP 60D

EXISTING FEATURES LEGEND	
	P/L PROPERTY LINE
	RW RIGHT-OF-WAY
	APPROXIMATE CENTERLINE
	EASEMENT
	QUARTER LINE
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	CHAIN LINK FENCE
	2" WATER
	4" WATER
	6" WATER
	8" WATER
	GRAVITY SEWER MAIN
	OVERHEAD POWER
	TREES
	# SURVEY CONTROL POINTS
	W SINGLE WATER METER
	W2 DOUBLE WATER METER



RIVER QUARRY AT PARKCENTER
 412 E PARKCENTER BLVD, SUITE 100
 BOISE, ID 83706

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL
 CAMMY DR SITE OVERVIEW & SURVEY CONTROL



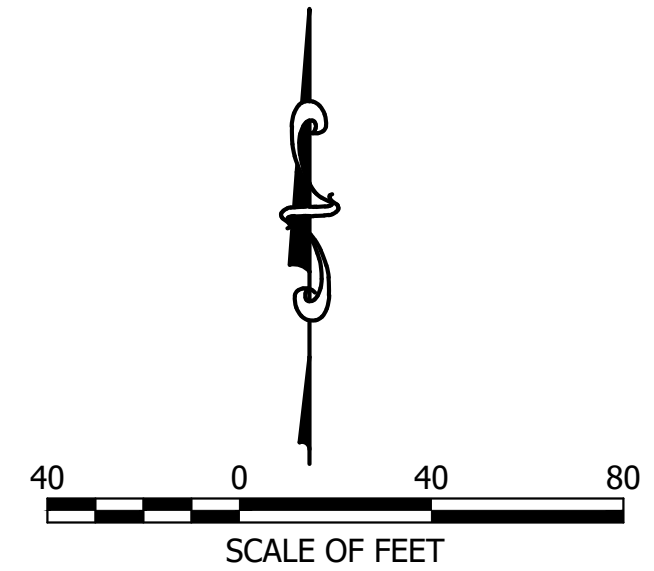
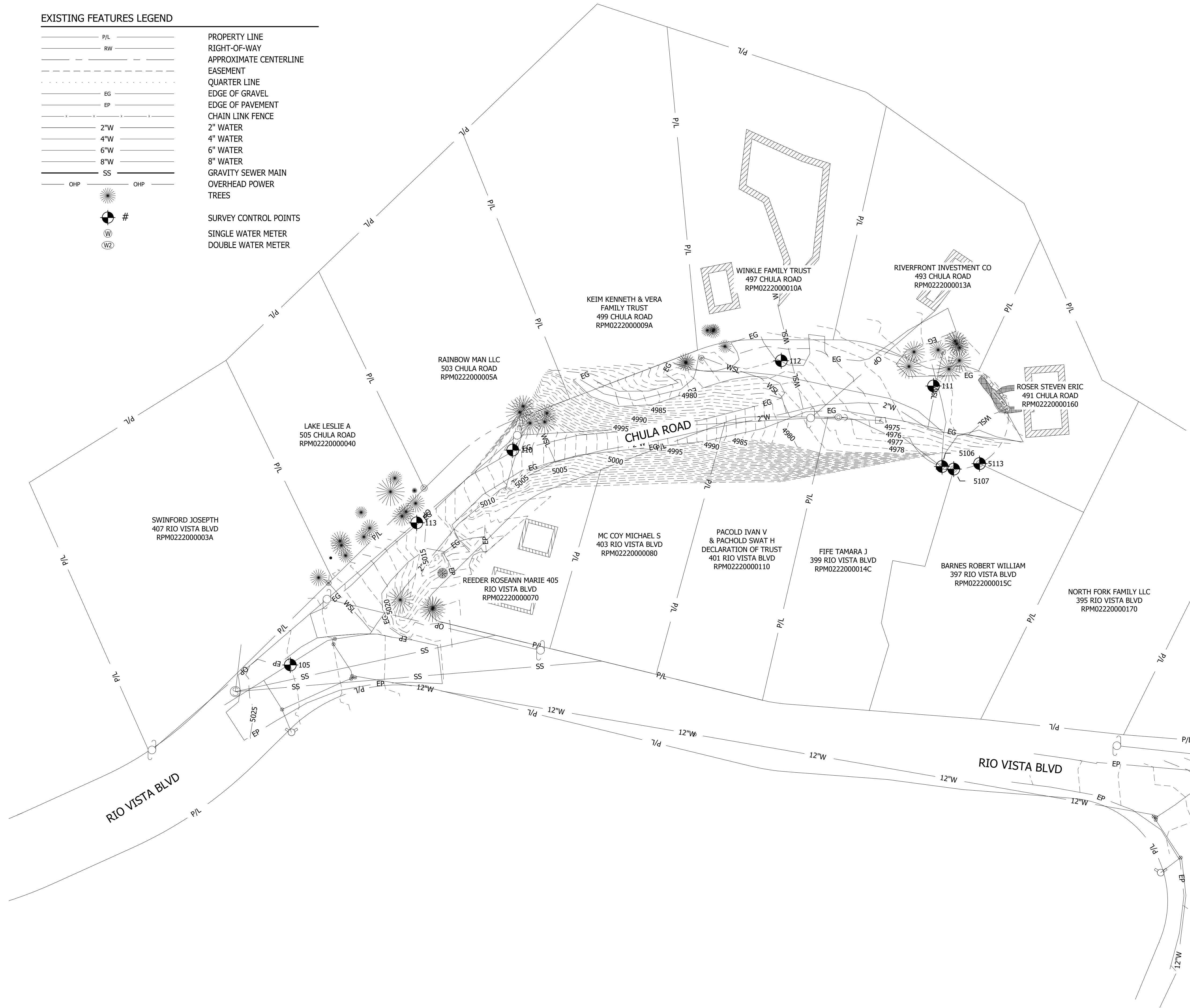
REVISIONS	DESCRIPTION	DATE
0	ISSUED FOR BIDDING & CONSTRUCTION	10/24/22

VERIFY SCALE	
PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

Path: S:\PROJECTS\TH Projects\H Projects\Horrocks Engineers_608\0460_Plan_Cammy Chula Water Main Upgrades\ File name: 608.0460_Plan_Cammy Chula Sunset Placid Plot date: Oct 24, 2022-02:49:32pm CAD User: HWHITE.
 Xref File name: | X-TITLE | X-EXIST |

EXISTING FEATURES LEGEND

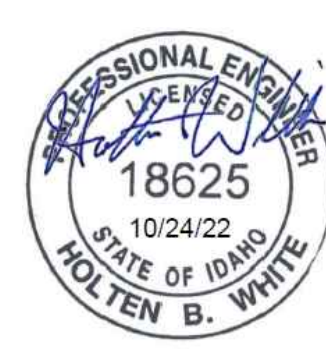
	PROPERTY LINE
	RIGHT-OF-WAY
	APPROXIMATE CENTERLINE
	EASEMENT
	QUARTER LINE
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	CHAIN LINK FENCE
	2\" WATER
	4\" WATER
	6\" WATER
	8\" WATER
	GRAVITY SEWER MAIN
	OVERHEAD POWER
	TREES
	SURVEY CONTROL POINTS
	SINGLE WATER METER
	DOUBLE WATER METER



Survey Control Point Table

Point #	Elevation	Northing	Easting	Description
105	5024.17	1181007.62	2529861.55	PKCHULARIO
110	5006.86	1181174.61	2530034.42	CP CIRS S8
111	4973.52	1181224.40	2530361.45	CP CIRS S8
112	4976.29	1181244.01	2530243.06	CP HUB
113	5015.86	1181188.07	2529959.83	CP 600 NLS
5106	4981.45	1181161.78	2530368.11	CIRF 12 PLS98S
5107	4982.33	1181159.77	2530377.14	CIRF 58 PLS98S
5113	4979.57	1181164.09	2530397.26	IRF 58

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL
 CHULA RD SITE OVEVIEW & SURVEY CONTROL



REVISIONS

ITEM	DESCRIPTION	DATE
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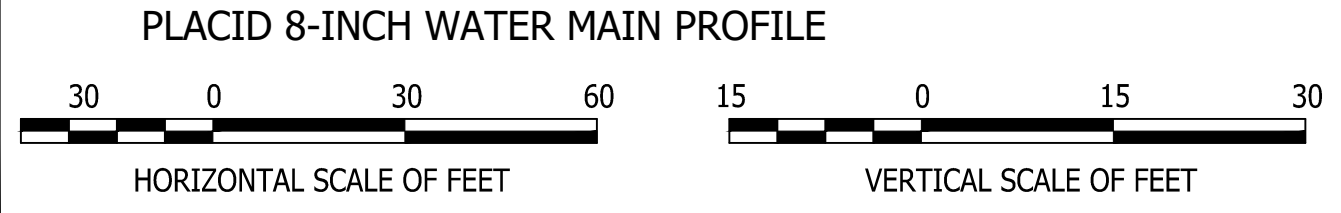
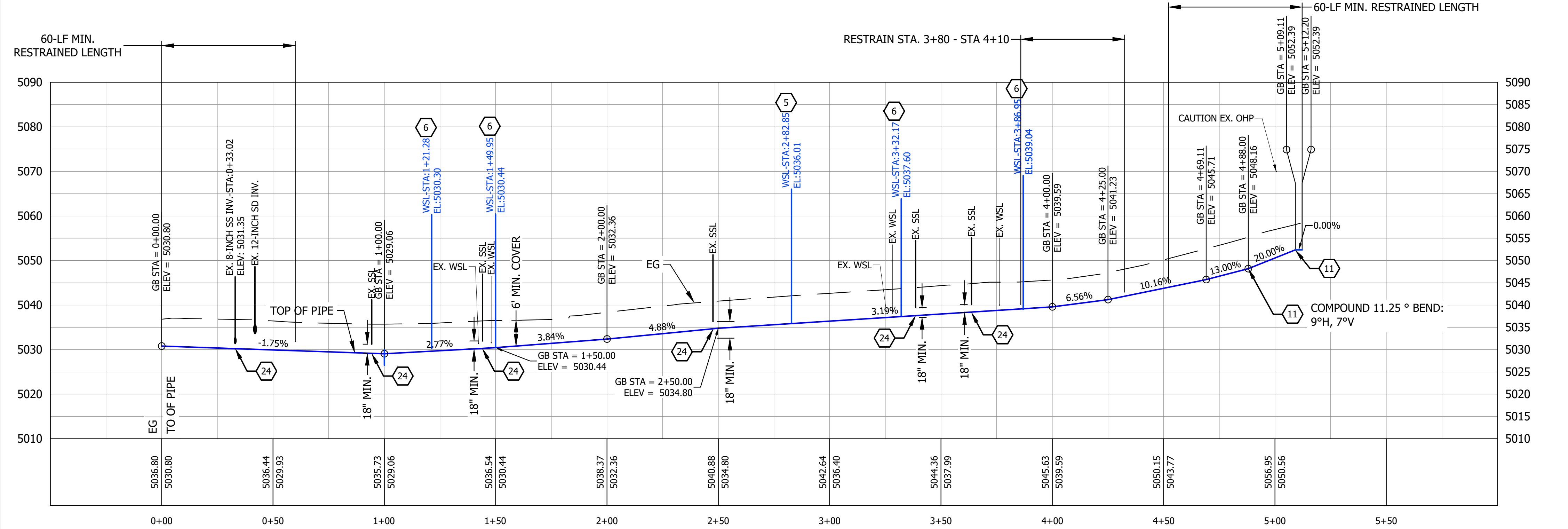
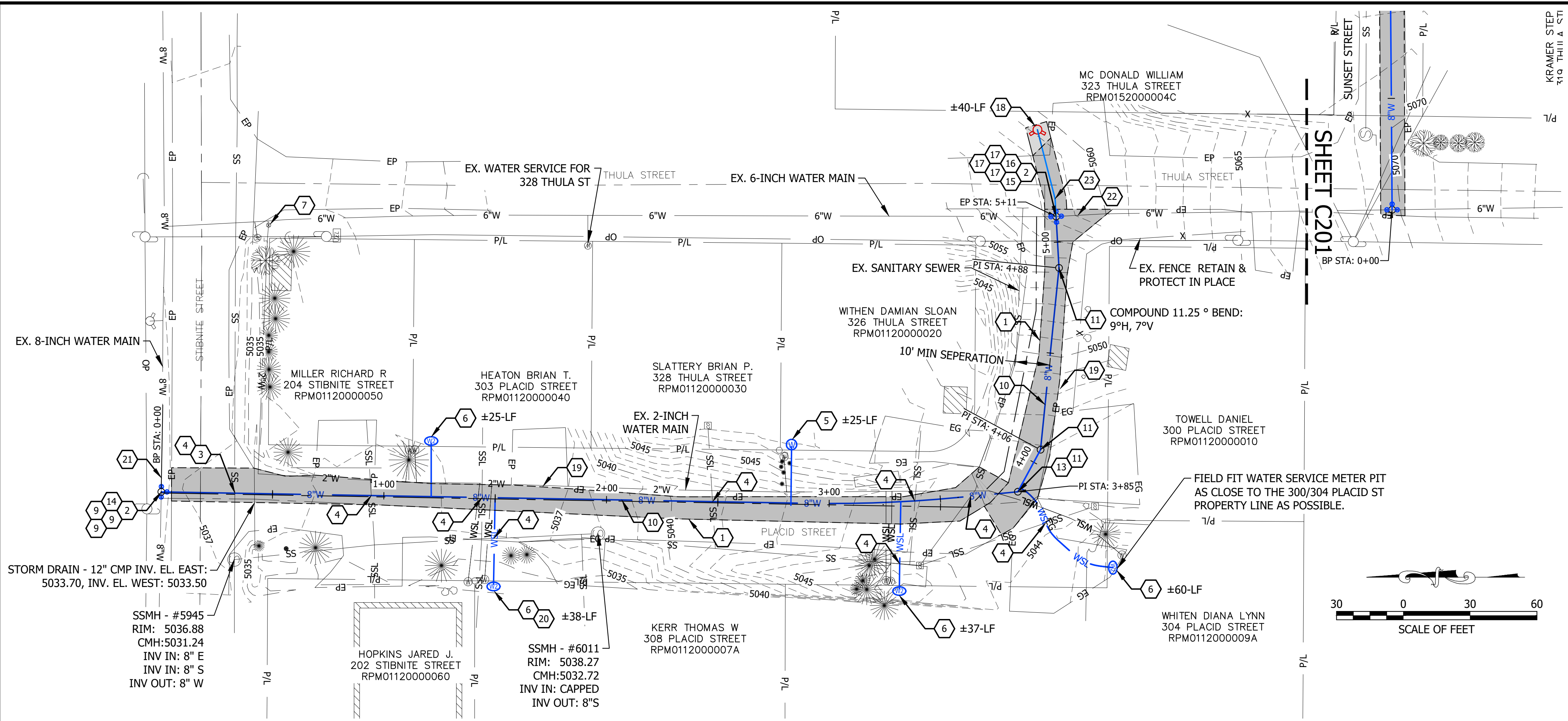
VERIFY SCALE

BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

C103

Path: S:\PROJECTS\TH Projects\H Projects\Horrocks Engineers_608\0460_Cammy Chula Water Main Upgrades\ File name: 608.0450 PLAN_CAMMY CHULA SUNSET PLACID Plot date: Nov 23, 2022-12:52:30pm CAD User: HWHITE.
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NOTES

- ALL MECHANICAL JOINT RESTRAINTS ARE TO BE PAID FOR BY THE CONTRACTOR UNLESS AGREED TO BY THE CITY. THE MINIMUM RESTRAINT LENGTHS ARE SHOWN IN THE PROFILE SHOULD THE CONTRACTOR ELECT TO USE THEM.

- KEYNOTES**
- SAWCUT ASPHALT IN A STRAIGHT NEAT LINE. SURFACE REPAIR PER CITY OF MCCALL MSD-302, C500, 560-LF
 - PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, POT HOLE CONNECTION POINTS TO VERIFY LOCATION, MATERIALS, AND SIZES OF EXISTING WATER MAINS. PROVIDE DATA TO ENGINEER FOR REVIEW BEFORE CONSTRUCTION BEGINS.
 - PRIOR TO CONSTRUCTION, POT HOLE EXISTING UTILITY TO VERIFY LOCATION & ELEVATION. PROVIDE DATA TO ENGINEER FOR REVIEW BEFORE CONSTRUCTION BEGINS.
 - POTENTIAL SEWER MAIN & LATERAL CROSSING. MAINTAIN 18-INCHES VERTICAL SEPARATION. SEE ISPWC SD-407 FOR POTABLE/NON-POTABLE CROSSINGS.
 - INSTALL SINGLE 1" WATER SERVICE PER MSD-401/SHEET C501. REMOVE EX. METER PIT AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 1-1/2" DOUBLE WATER SERVICE PER MSD-402/SHEET C501. REMOVE EX. METER PITS AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. METER PIT LOCATION TO BE FIELD VERIFIED AND APPROVED BY OWNER TO ACCOUNT FOR EXISTING UTILITIES. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - FOLLOWING TESTING AND APPROVAL OF REPLACEMENT WATER MAINS, REMOVE EX. GATE VALVE, INSTALL PLUG/BLIND FLANGE ON EX. TAPPING SADDLE AND CAP/ABANDON EX. 2-INCH WATER MAIN IN PLACE.
 - REFER TO GENERAL NOTE 16 & 21 SHEET C002 FOR TEMPORARY WATERLINE SHUTDOWNS. CONTRACTOR IS TO ANTICIPATE THREE (3) TEMPORARY SHUTDOWNS, ONE FOR EACH TIE-IN ON BOTH ENDS OF THE NEW WATER MAIN AND ONE FOR THE 2-INCH WATER MAIN ABANDONMENT.
 - INSTALL 8-INCH GATE VALVE, MSD-412, C500
 - INSTALL 8-INCH DR18 C900 PVC, MSD-302/303, C500, 512-LF
 - INSTALL 8-INCH, 11.25° BEND
 - INSTALL 8-INCH, 22.5° BEND (NOT USED)
 - INSTALL 8-INCH, 45° BEND
 - INSTALL 8-INCH, TEE
 - INSTALL 6 X 8 REDUCER, FLXFL
 - INSTALL 6-INCH CROSS
 - INSTALL 6-INCH GATE VALVE, MSD-412, C500
 - INSTALL FIRE HYDRANT ASSEMBLY PER MSD-408, C502
 - GRAVEL SHOULDER REPAIR PER ISPWC 307.3.12.C - 560-LF
 - REMOVE STUMP PER ISPWC 201
 - INSTALL 8-INCH, LONG SLEEVE COUPLER AND APPROX. 4-LF OF C900 DR18 PVC PIPE.
 - INSTALL 6-INCH, LONG SLEEVE COUPLER AND APPROX. 4-LF OF C900 DR18 PVC PIPE.
 - INSTALL 6-INCH, 11.25° BEND
 - INSTALL 20-LF CASING WHERE 18-INCH VERTICAL SEPARATION CANNOT BE ACHIEVED. CASING SHALL BE CENTERED AT CROSSING. CARRIER PIPE SHALL BE CENTERED AXIALLY IN CASING USING SKIDS/SPACERS PER ISPWC SECTION 308 AND SHALL INCLUDE END SEALS.

- PROPOSED FEATURES LEGEND**
- 8" W 8" WATER
 - 6" W 6" WATER
 - WSL WATER SERVICE LINE
 - W VALVE WATER VALVE
 - W M SINGLE WATER METER
 - W DM DOUBLE WATER METER
 - W FA FIRE HYDRANT ASSEMBLY
 - W SA SAWCUT ASPHALT
 - W GR GRVEL SURFACE REPAIR

- EXISTING FEATURES LEGEND**
- P/L PROPERTY LINE
 - RW RIGHT-OF-WAY
 - ACL APPROXIMATE CENTERLINE
 - EASEMENT
 - QL QUARTER LINE
 - EG EDGE OF GRAVEL
 - EP EDGE OF PAVEMENT
 - CF CHAIN LINK FENCE
 - 2" W 2" WATER
 - 4" W 4" WATER
 - 6" W 6" WATER
 - 8" W 8" WATER
 - SS GRAVITY SEWER MAIN
 - OHP OVERHEAD POWER
 - T TREES
 - # SURVEY CONTROL POINTS
 - W SINGLE WATER METER
 - W2 DOUBLE WATER METER

SPF
 RIVER QUARRY AT PARKCENTER
 412 E PARKCENTER BLVD. SUITE 100
 BOISE, ID 83706

FOR

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL

PLACID ST WATER MAIN PLAN & PROFILE

PROFESSIONAL ENGINEER
 18625
 11/23/22
 STATE OF IDAHO
 HOLTEN B. WHITE

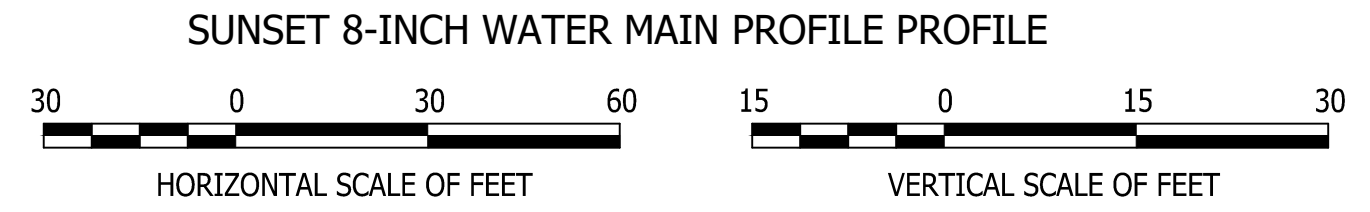
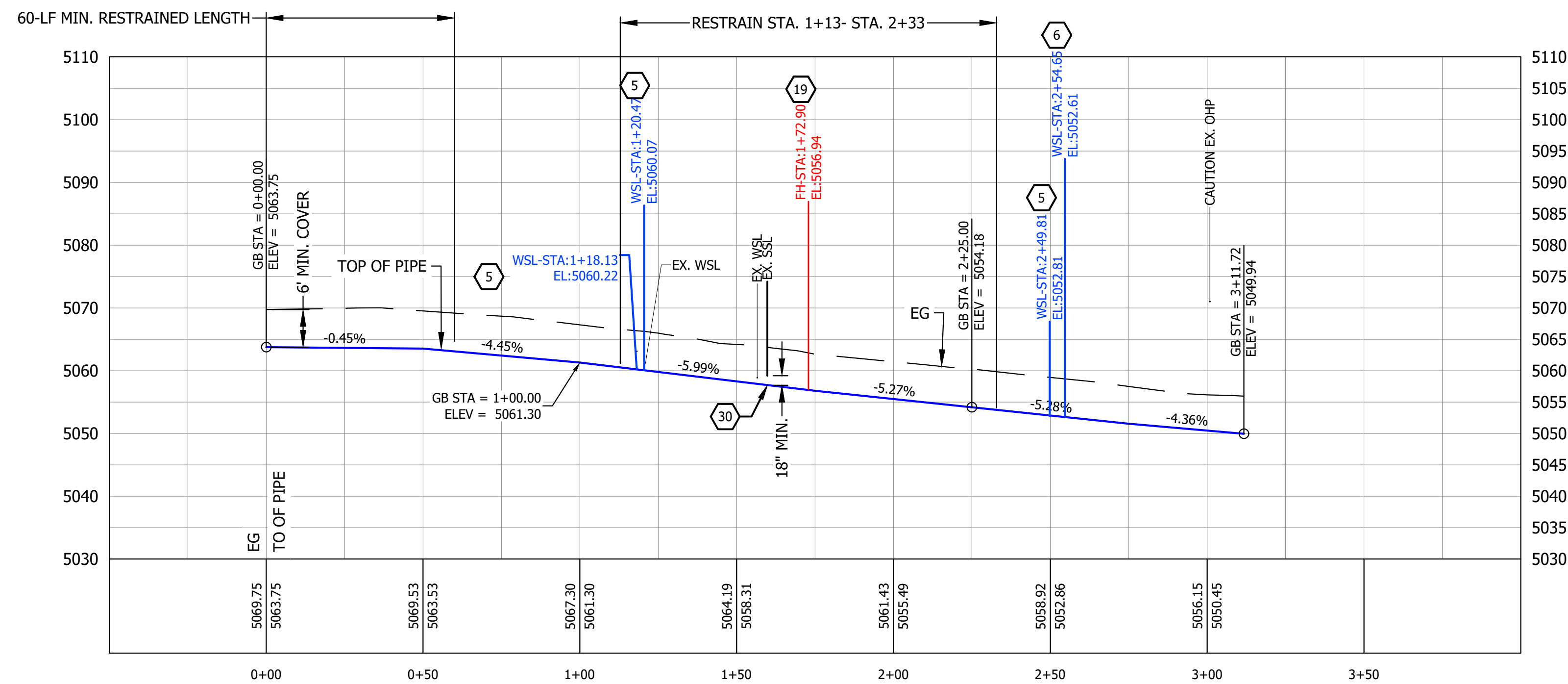
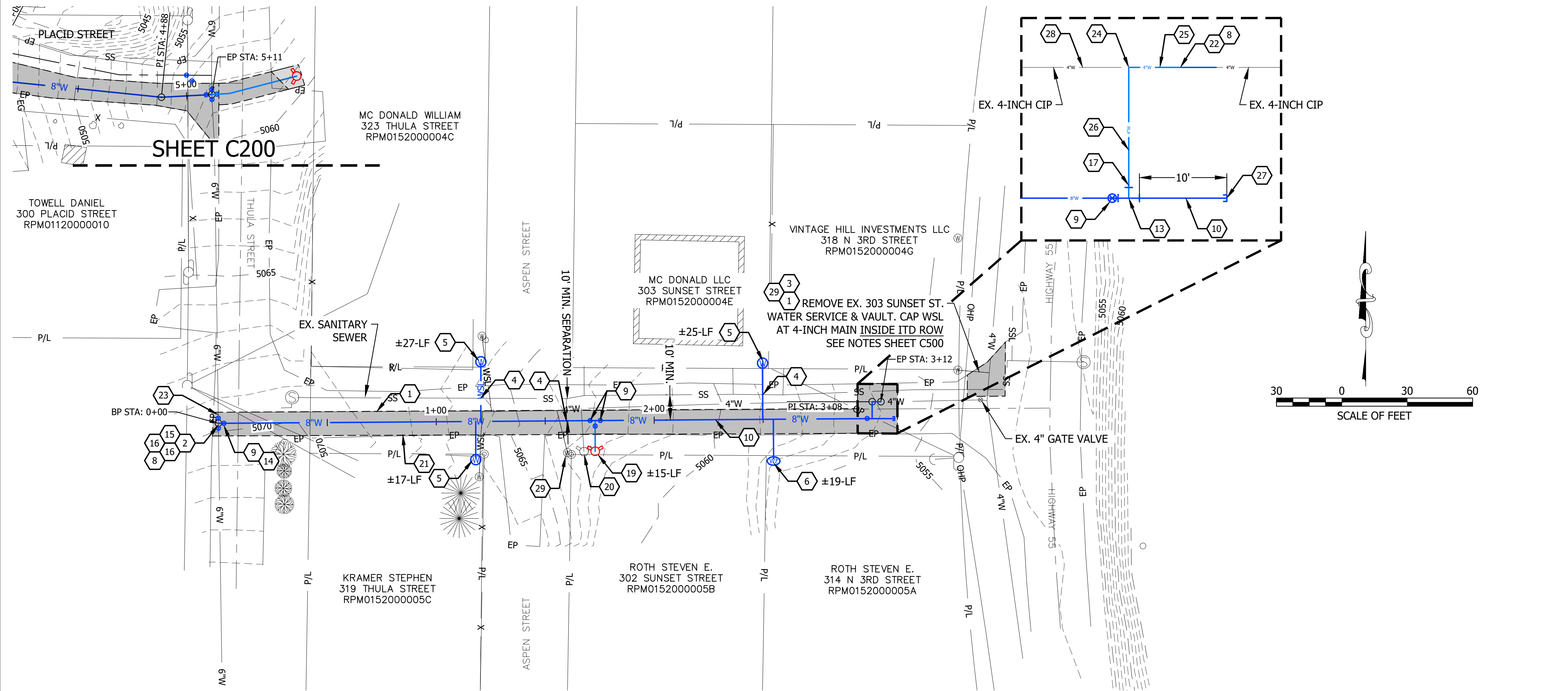
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1	11/21/22	REISSUED FOR BIDDING & CONSTRUCTION
2	11/23/22	ADDENDUM 1

VERIFY SCALE
 BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
 DESIGNED: HW
 DRAWN: HW
 CHECKED: MB

C200

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 Xref File name: 1 | X-TITLE | X-EXIST |



NOTES

- ALL MECHANICAL JOINT RESTRAINTS ARE TO BE PAID FOR BY THE CONTRACTOR UNLESS AGREED TO BY THE CITY. THE MINIMUM RESTRAINT LENGTHS ARE SHOWN IN THE PROFILE SHOULD THE CONTRACTOR ELECT TO USE THEM.

PROPOSED FEATURES LEGEND

	8" WATER
	6" WATER
	WATER SERVICE LINE
	WATER VALVE
	SINGLE WATER METER
	DOUBLE WATER METER
	FIRE HYDRANT ASSEMBLY
	SAWCUT ASPHALT
	GRAVEL SURFACE REPAIR

EXISTING FEATURES LEGEND

	PROPERTY LINE
	RIGHT-OF-WAY
	APPROXIMATE CENTERLINE
	EASEMENT
	QUARTER LINE
	EDGE OF GRAVEL
	EDGE OF PAVEMENT
	CHAIN LINK FENCE
	2" WATER
	4" WATER
	6" WATER
	8" WATER
	GRAVITY SEWER MAIN
	OVERHEAD POWER
	TREES
	SURVEY CONTROL POINTS
	SINGLE WATER METER
	DOUBLE WATER METER

- KEYNOTES**
- SAWCUT ASPHALT IN A STRAIGHT NEAT LINE. SURFACE REPAIR PER CITY OF MCCALL MSD-302, C500, 370-LF
 - PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, POT HOLE CONNECTION POINTS TO VERIFY LOCATION, MATERIALS, AND SIZES OF EXISTING WATER MAINS.
 - PRIOR TO CONSTRUCTION, POT HOLE EXISTING UTILITY TO VERIFY LOCATION & ELEVATION.
 - POTENTIAL SEWER MAIN & LATERAL CROSSING. MAINTAIN 18-INCHES VERTICAL SEPARATION. SEE ISPCW SD-407 FOR POTABLE/NON-POTABLE CROSSINGS.
 - INSTALL SINGLE 1" WATER SERVICE PER MSD-401/SHEET C501. REMOVE EX. METER PIT AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 1-1/2" DOUBLE WATER SERVICE PER MSD-402/SHEET C501. REMOVE EX. METER PITS AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. METER PIT LOCATION TO BE FIELD VERIFIED AND APPROVED BY OWNER TO ACCOUNT FOR EXISTING UTILITIES. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - FOLLOWING TESTING AND APPROVAL OF REPLACEMENT WATER MAINS, REMOVE EX. GATE VALVE, INSTALL PLUG/BLIND FLANGE ON EX. TAPPING SADDLE AND CAP/ABANDON EX. 4-INCH WATER MAIN IN PLACE OR CLOSE EX. GATE VALVE, INSTALL PLUG/BLIND FLANGE ON EX. GATE VALVE AND CAP/ABANDON EX. 4" WATER MAIN IN PLACE. VALVE BOX TO BE REUSED IF GATE VALVE IS NOT REMOVED.
 - REFER TO GENERAL NOTE 16 & 21 SHEET C002 FOR TEMPORARY WATERLINE SHUTDOWNS. CONTRACTOR IS TO ANTICIPATE UP TO THREE (3) TEMPORARY SHUTDOWNS, ONE FOR EACH TIE-IN ON BOTH ENDS OF THE NEW WATER MAIN AND ONE POSSIBLY FOR THE 4-INCH WATER MAIN ABANDONMENT.
 - INSTALL 8-INCH GATE VALVE, MSD-412, C500
 - INSTALL 8-INCH DR18 C900 PVC MSD-302, C500, 322-LF
 - INSTALL 8-INCH, 11.25° BEND
 - INSTALL 8-INCH, 22.5° BEND
 - INSTALL 8-INCH, TEE
 - INSTALL 6 X 8 REDUCER, FLXFL
 - INSTALL 6-INCH TEE
 - INSTALL 6-INCH GATE VALVE, MSD-412/C500
 - INSTALL 4 X 8 REDUCER
 - NOT USED
 - INSTALL NEW 6" FIRE HYDRANT ASSEMBLY PER DETAIL 1, SHEET C502
 - REMOVE FIRE HYDRANT ASSEMBLY AFTER NEW HYDRANT IS INSTALLED & PROPOSED IS ACCEPTED FOR SERVICE.
 - GRAVEL SHOULDER REPAIR PER ISPCW 307.3.12.C
 - INSTALL 4-INCH, ROMAC RC501 COUPLER. CITY REQUIRED TO BE PRESENT AT TIME CONNECTING.
 - INSTALL 6-INCH LONG SLEEVE COUPLER AND APPROX. 4-LF OF C900 DR18 PVC PIPE.
 - INSTALL 4-INCH, 90° BEND, MJX MJ
 - INSTALL 4-INCH, C900 DR18 PVC #4-LF
 - INSTALL 4-INCH, C900 DR18 PVC #8-LF
 - INSTALL 8-INCH MJ PLUG AND THRUST BLOCK FOR FUTURE EXTENSION & CONNECTION TO SH-55 PROPOSED WATER MAIN.
 - INSTALL MJ CAP/PLUG ON EXISTING 4-INCH CIP & ABANDON IN PLACE.
 - REMOVE EXISTING WATER METER & METER VAULT
 - INSTALL 20-LF CASING WHERE 18-INCH VERTICAL SEPARATION CANNOT BE ACHIEVED. CASING SHALL BE CENTERED AT CROSSING. CARRIER PIPE SHALL BE CENTERED AXIALLY IN CASING USING SKIDS/SPACERS PER ISPCW SECTION 308 AND SHALL INCLUDE END SEALS.

FOR SPF

RIVER QUARRY AT PARKCENTER
412 E PARKCENTER BLVD. SUITE 100
BOISE, ID 83706

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES

CITY OF MCCALL

SUNSET ST WATER MAIN PLAN & PROFILE

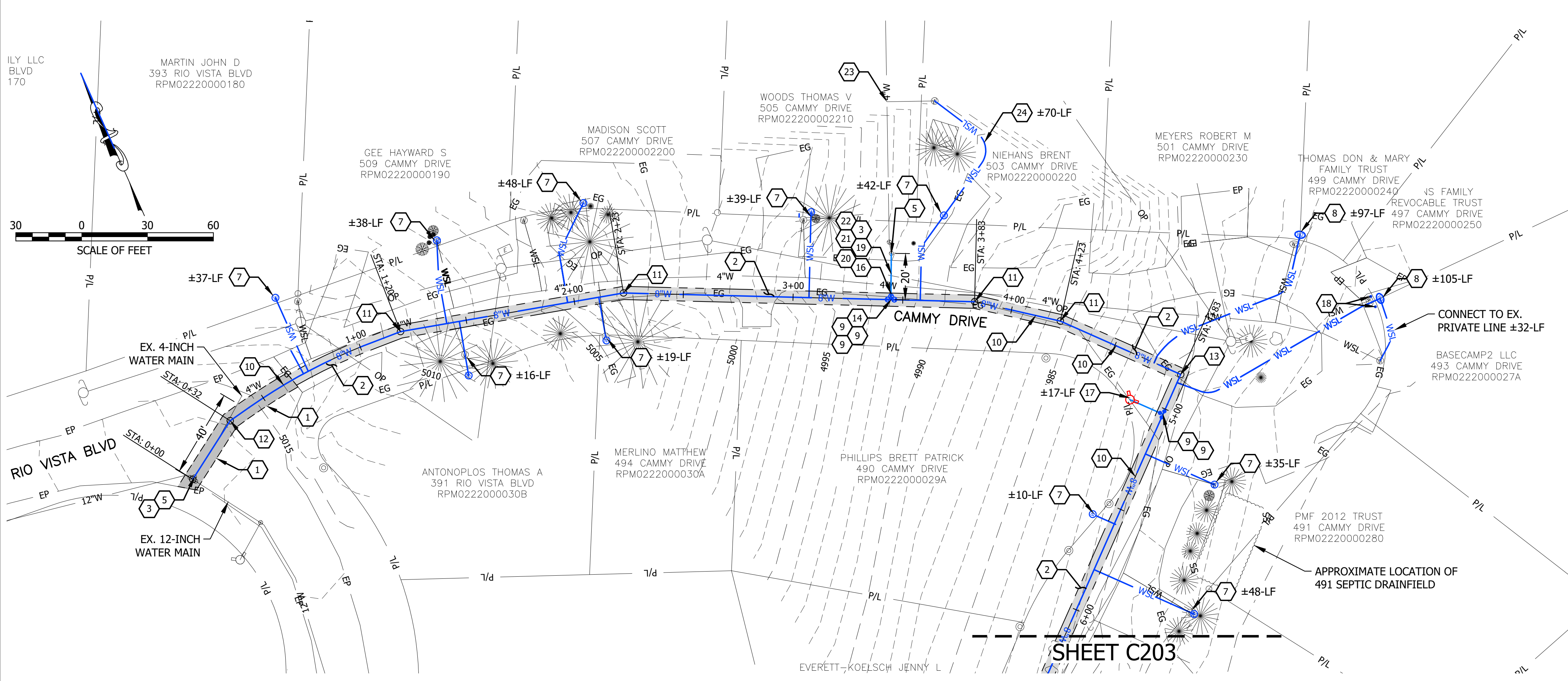
PROFESSIONAL ENGINEER
18625
11/23/22
STATE OF IDAHO
MOLLEN B. WHITE

REVISIONS	DATE	DESCRIPTION
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1	11/21/22	REISSUED FOR BIDDING & CONSTRUCTION
2	11/23/22	ADDENDUM 1

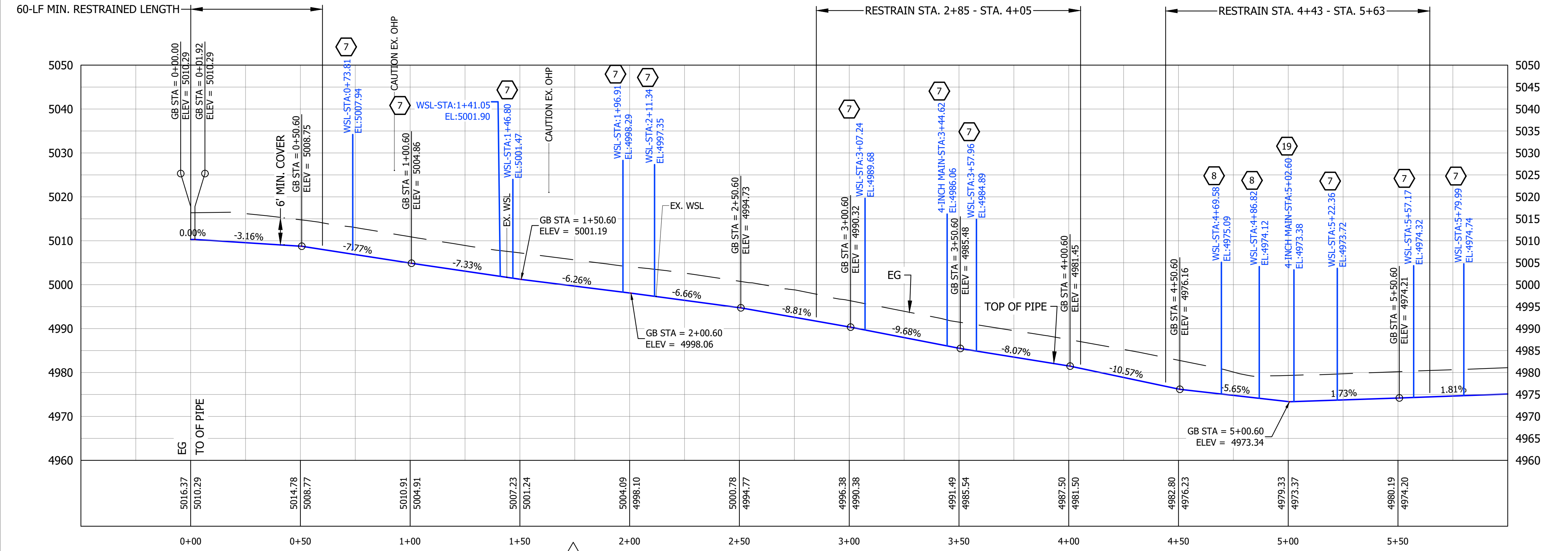
VERIFY SCALE
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BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
DESIGNED: HW
DRAWN: HW
CHECKED: MB

C201



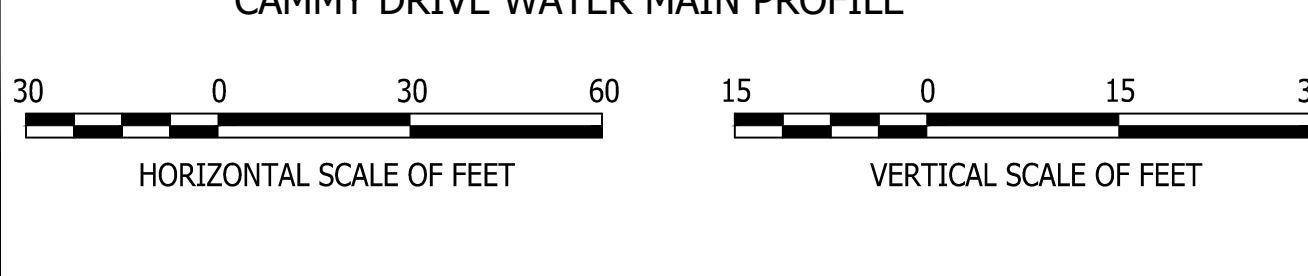
- KEYNOTES**
- SAWCUT ASPHALT IN A STRAIGHT NEAT LINE. SURFACE REPAIR PER CITY OF MCCALL MSD-302, C500. 80-LF
 - GRAVEL SURFACE REPAIR PER CITY OF MCCALL PER MSD-303 & GRAVEL SHOULDER REPAIR PER ISPWC 307.3.12.C - 520-LF THIS SHEET
 - CONNECT TO EXISTING 8-INCH GATE VALVE. PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, POTHOLE CONNECTION POINTS TO VERIFY LOCATION, MATERIALS, AND SIZES OF EXISTING WATER MAINS.
 - PRIOR TO CONSTRUCTION, POT HOLE EXISTING UTILITY TO VERIFY LOCATION & ELEVATION.
 - CLOSE 4-INCH WATER MAIN GATE VALVE AT 505 CAMMY DR AND REMOVE ±40-LF OF EXISTING 4-INCH WATER MAIN AT RIO VISTA/CAMMY INTERSECTION. INSTALL 4-INCH PLUG AND THRUST BLOCK ON PIPE AND ABANDON IN PLACE. OPEN GATE VALVE AT 505 CAMMY DR TO ALLOW FOR WATER SERVICE DURING CONSTRUCTION.
 - REFER TO GENERAL NOTE 16 & 21 SHEET C002 FOR TEMPORARY WATERLINE SHUTDOWNS. CONTRACTOR IS TO ANTICIPATE UP TO TWO (2) TEMPORARY SHUTDOWNS.
 - INSTALL SINGLE 1" WATER SERVICE PER MSD-401/SHEET C501. REMOVE EX. METER PIT AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 1-1/2" DOUBLE WATER SERVICE PER MSD-402/SHEET C501. REMOVE EX. METER PITS AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. METER PIT LOCATION TO BE FIELD VERIFIED AND APPROVED BY OWNER TO ACCOUNT FOR EXISTING UTILITIES. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 8-INCH GATE VALVE, MSD-412/C500
 - INSTALL 8-INCH DR18 C900 PVC, MSD-302-303, C500. 600-LF THIS SHEET
 - INSTALL 8-INCH, 11.25° BEND
 - INSTALL 8-INCH, 22.5° BEND
 - INSTALL 8-INCH, 90° BEND
 - INSTALL 8-INCH, TEE
 - INSTALL 12 X 8 - REDUCER
 - INSTALL TEMPORARY PLUG IN 8-INCH GATE VALVE
 - INSTALL NEW 6" FIRE HYDRANT ASSEMBLY PER MSD-408, C502
 - INSTALL BOLLARDS 4-LF APART AND 4-LF MIN IN FRONT OF METER PIT PER DETAIL 3, SHEET C503
 - FOLLOWING TESTING AND APPROVAL OF REPLACEMENT WATER MAINS, REMOVE ±20-LF EXISTING 4-INCH MAIN AND MAKE CONNECTION PER PLAN.
 - INSTALL 8 X 4 - REDUCER
 - INSTALL 4-INCH DR18 C900 PVC - 20-LF TOTAL THIS SHEET, C500
 - INSTALL 4-INCH, LONG SLEEVE COUPLER
 - CAP EXISTING CORP. STOP AT EXISTING 4-INCH WATER MAIN.
 - INSTALL PRIVATE SINGLE 1-INCH WATER SERVICE LINE FROM EXISTING METER PIT TO NEW METER PIT.



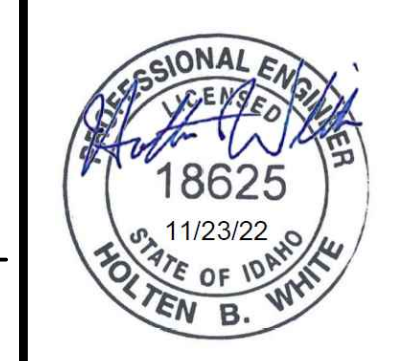
- PROPOSED FEATURES LEGEND**
- 8" W (8" WATER)
 - 6" W (6" WATER)
 - W.S.L. (WATER SERVICE LINE)
 - (Symbol) (WATER VALVE)
 - (Symbol) (SINGLE WATER METER)
 - (Symbol) (DOUBLE WATER METER)
 - (Symbol) (FIRE HYDRANT ASSEMBLY)
 - (Symbol) (SAWCUT ASPHALT)
 - (Symbol) (GRAVEL SURFACE REPAIR)
- EXISTING FEATURES LEGEND**
- P/L (PROPERTY LINE)
 - RW (RIGHT-OF-WAY)
 - (Symbol) (APPROXIMATE CENTERLINE)
 - (Symbol) (EASEMENT)
 - (Symbol) (QUARTER LINE)
 - (Symbol) (EDGE OF GRAVEL)
 - (Symbol) (EDGE OF PAVEMENT)
 - (Symbol) (CHAIN LINK FENCE)
 - (Symbol) (2" WATER)
 - (Symbol) (4" WATER)
 - (Symbol) (6" WATER)
 - (Symbol) (8" WATER)
 - (Symbol) (GRAVITY SEWER MAIN)
 - (Symbol) (OVERHEAD POWER)
 - (Symbol) (TREES)
 - (Symbol) (SURVEY CONTROL POINTS)
 - (Symbol) (SINGLE WATER METER)
 - (Symbol) (DOUBLE WATER METER)

NOTES

- ALL MECHANICAL JOINT RESTRAINTS ARE TO BE PAID FOR BY THE CONTRACTOR UNLESS AGREED TO BY THE CITY. THE MINIMUM RESTRAINT LENGTHS ARE SHOWN IN THE PROFILE SHOULD THE CONTRACTOR ELECT TO USE THEM.



SPF
FOR
 SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL
 CAMMY DR WATER MAIN PLAN & PROFILE STA 0+00-6+00

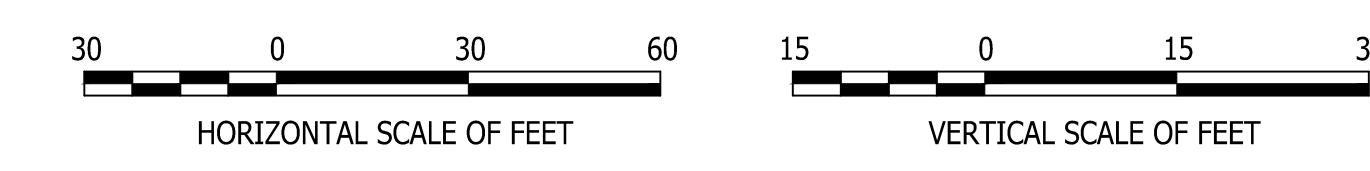
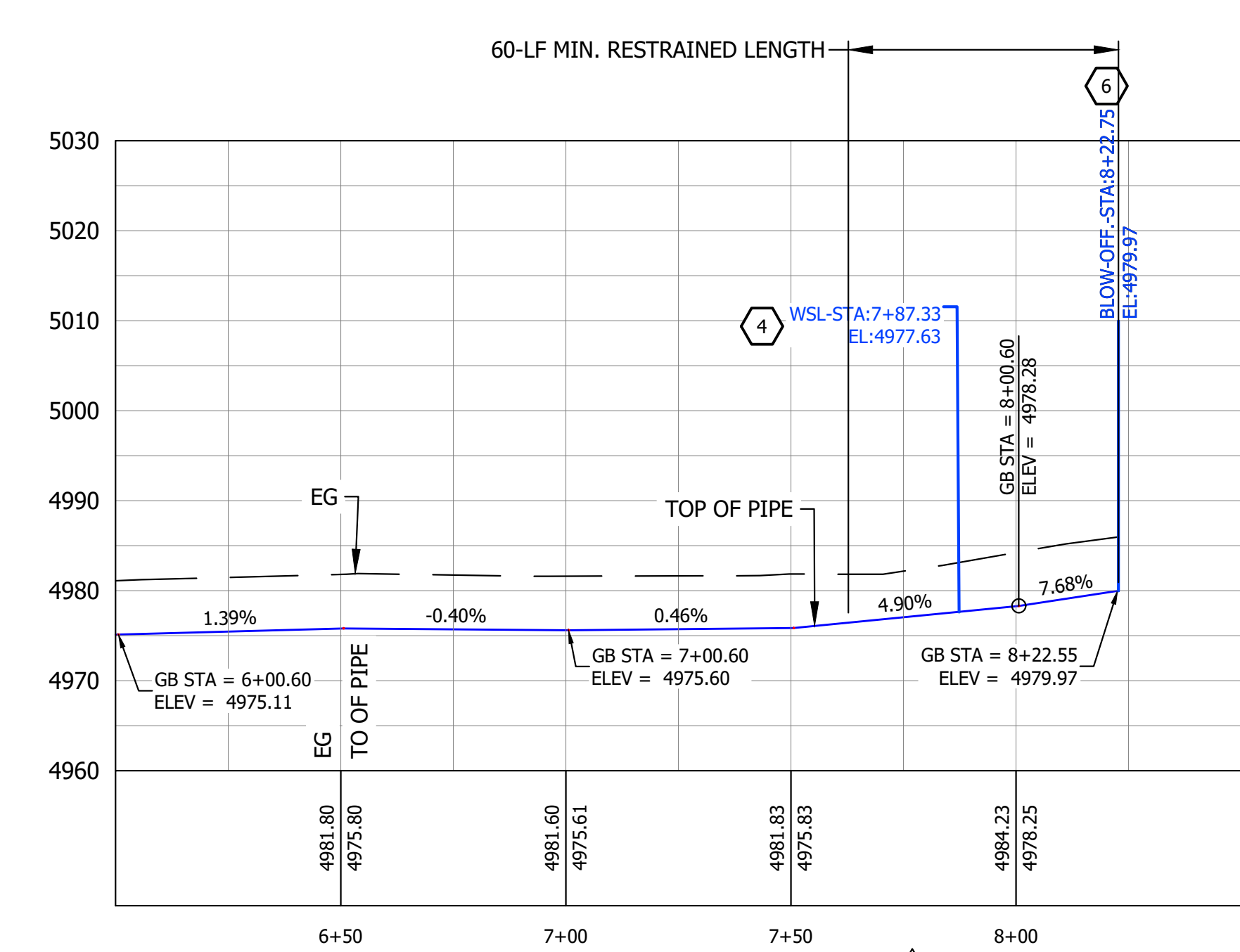
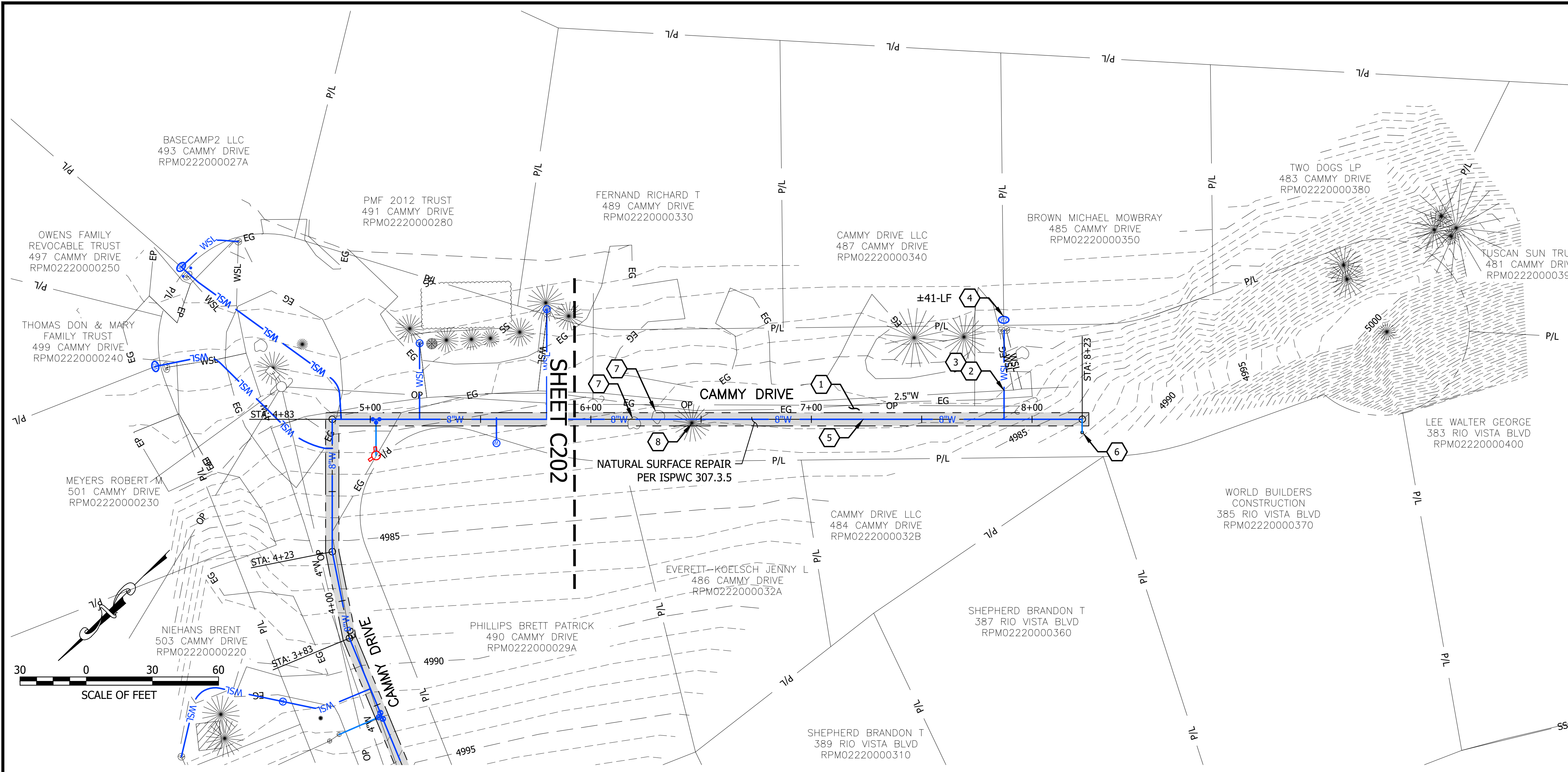


REVISIONS	DATE	DESCRIPTION
0	10/24/22	ISSUED FOR BIDDING & CONSTRUCTION
1	11/21/22	REISSUED FOR BIDDING & CONSTRUCTION
2	11/23/22	ADDENDUM 1

VERIFY SCALE
 BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
 DESIGNED: HW
 DRAWN: HW
 CHECKED: MB

Path: S:\PROJECTS\H Projects\H Projects\Horrocks Engineers_608\0460_Plan_Cammy Chula Sunset Placid File: 608.0450_Plan_Cammy Chula Water Main Upgrades.dwg File: 608.0450_Plan_Cammy Chula Sunset Placid Plot date: Nov 23, 2022-12:48:59pm CAD User: HWHITE
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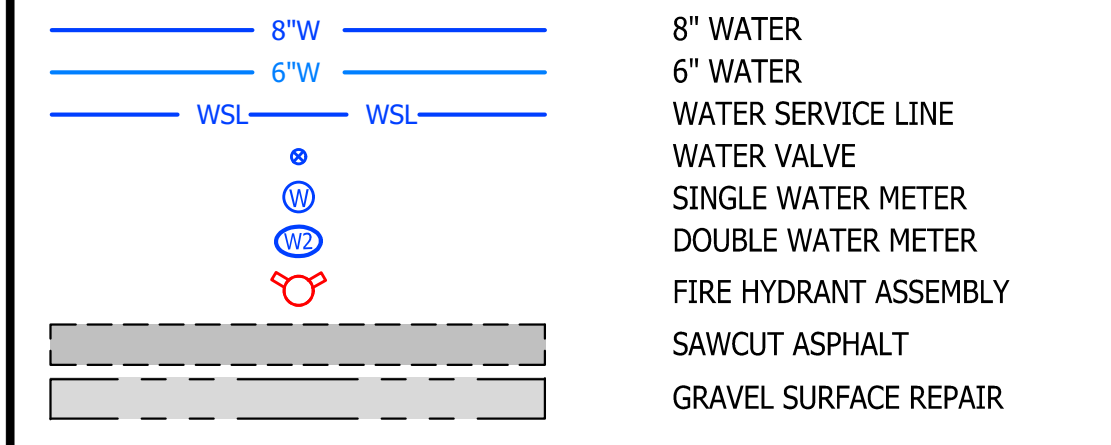
NOTES

- ALL MECHANICAL JOINT RESTRAINTS ARE TO BE PAID FOR BY THE CONTRACTOR UNLESS AGREED TO BY THE CITY. THE MINIMUM RESTRAINT LENGTHS ARE SHOWN IN THE PROFILE SHOULD THE CONTRACTOR ELECT TO USE THEM.

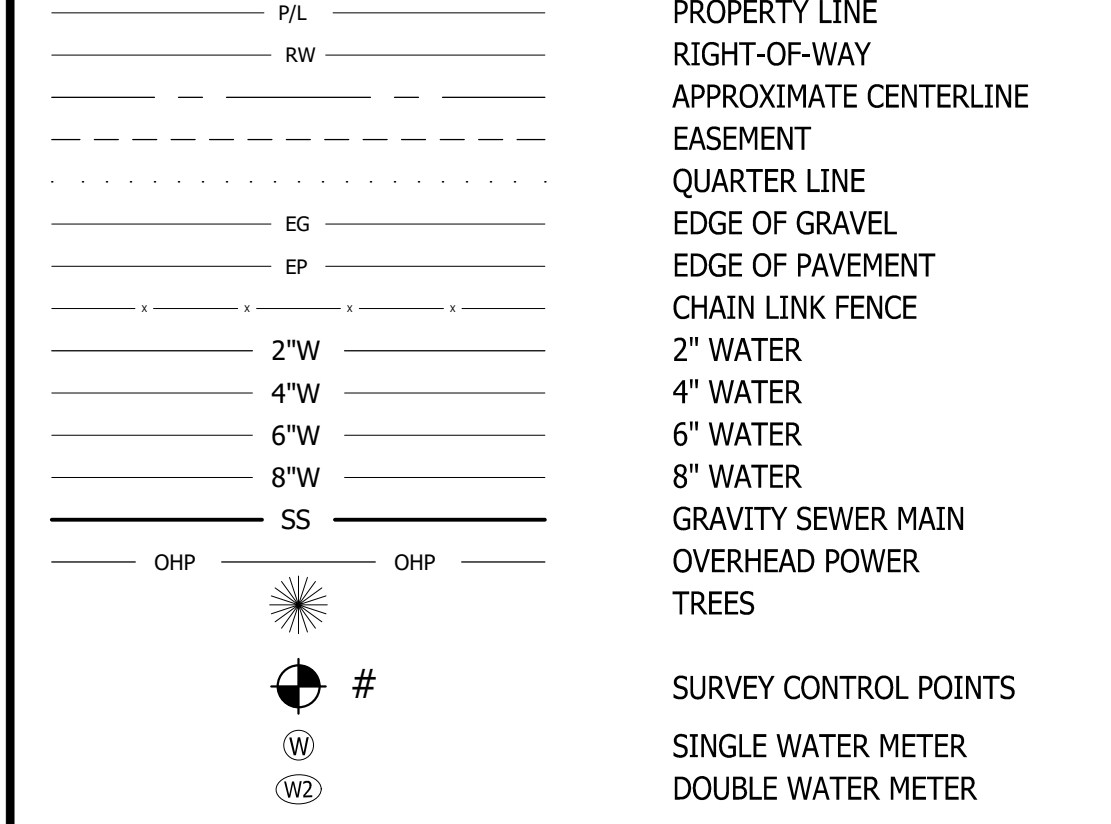
KEYNOTES

- GRAVEL SHOULDER REPAIR PER ISPCW 307.3.12.C. 230-LF THIS SHEET
- PRIOR TO CONSTRUCTION, POTHOLE EXISTING UTILITY TO VERIFY LOCATION & ELEVATION.
- REFER TO GENERAL NOTE 16 & 21 SHEET C002 FOR TEMPORARY WATERLINE SHUTDOWNS. CONTRACTOR IS TO ANTICIPATE UP TO TWO (2) TEMPORARY SHUTDOWNS.
- INSTALL 1-1/2" DOUBLE WATER SERVICE PER MSD-402/SHEET C501. REMOVE EX. METER PITS AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. METER PIT LOCATION TO BE FIELD VERIFIED AND APPROVED BY OWNER TO ACCOUNT FOR EXISTING UTILITIES. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
- INSTALL 8-INCH DR18 C900 PVC, MSD-303, C500 - 223-LF THIS SHEET
- INSTALL BLOW-OFF PER MSD-405/C502
- RELOCATE BOULDER NORTHWEST OF PROPOSED ALIGNMENT W/ IN CITY ROW AND AWAY FROM PIPE TRENCH. BOULDERS APPROXIMATELY 6-FT IN DIAMETER.
- REMOVE AND DISPOSE OF TREE

PROPOSED FEATURES LEGEND



EXISTING FEATURES LEGEND



SPF
 RIVER QUARRY AT PARKCENTER
 412 E PARKCENTER BLVD, SUITE 100
 BOISE, ID 83706

HCR

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
 CITY OF MCCALL

CAMMY DR WATER MAIN PLAN & PROFILE STA 6+00-8+23

PROFESSIONAL ENGINEER
 18625
 11/23/22
 STATE OF IDAHO
 MOLTEN B. WHITE

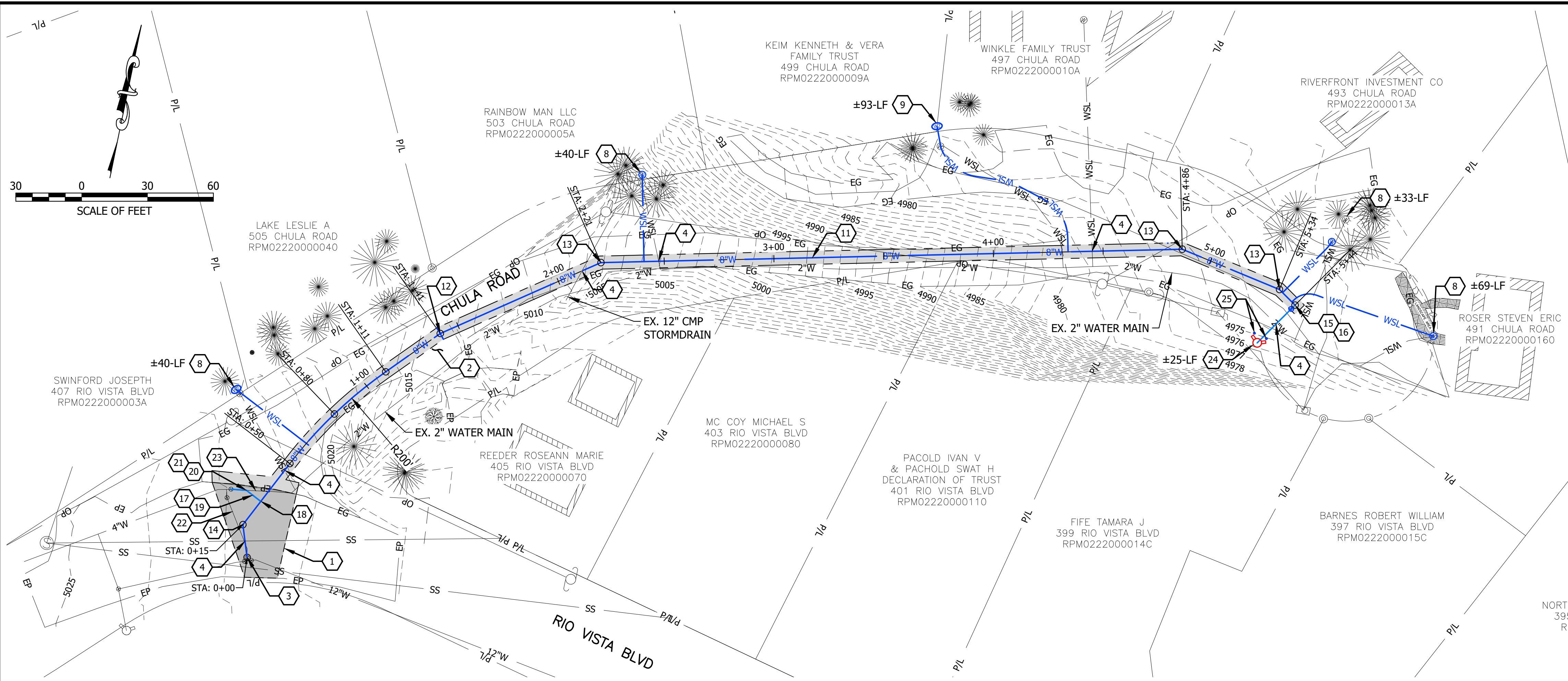
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2	11/23/22	ADDENDUM 1

VERIFY SCALE
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 BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
 DESIGNED: HW
 DRAWN: HW
 CHECKED: MB

C203

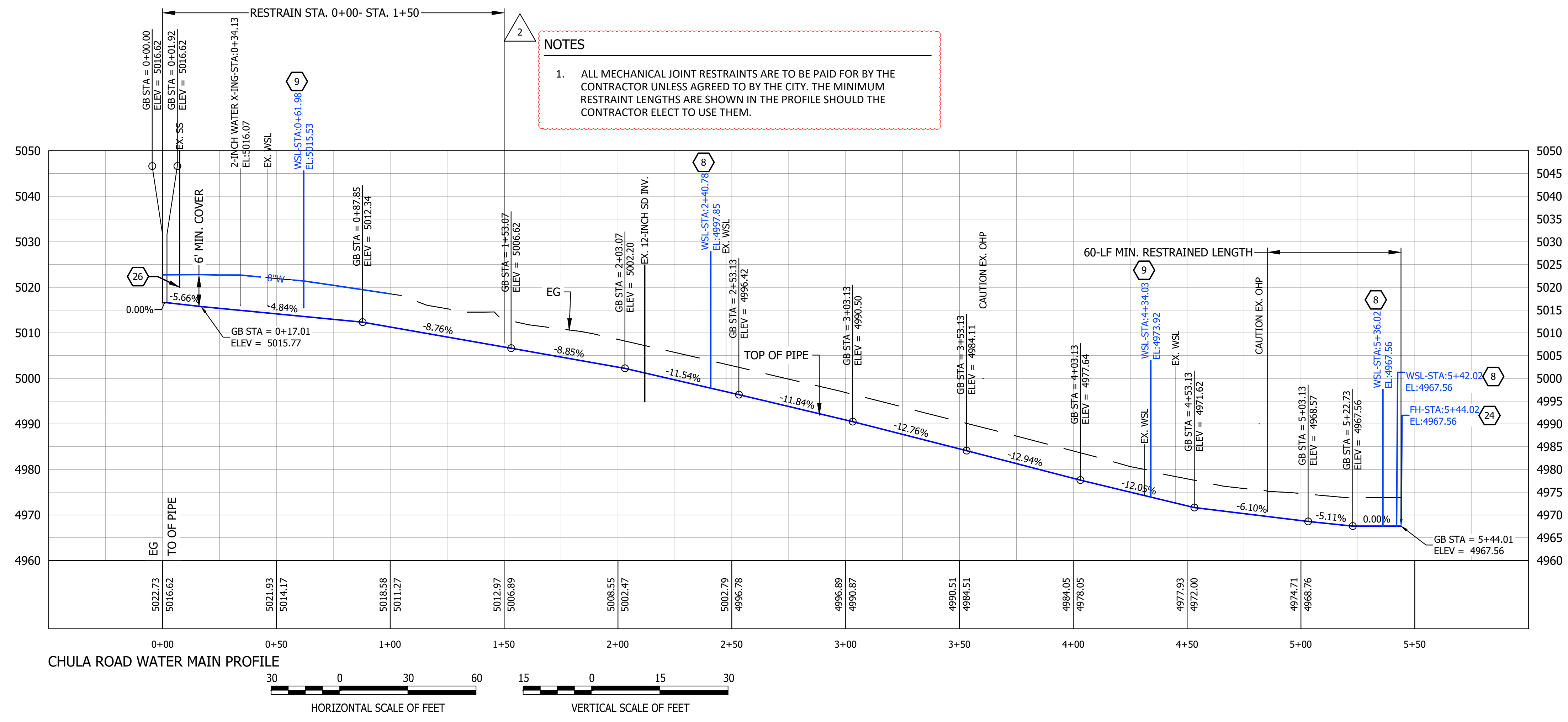
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 Xref Filename: 1\X-TITLE [X-EXIST]



- ### KEYNOTES
- SAWCUT ASPHALT IN A STRAIGHT NEAT LINE. SURFACE REPAIR PER CITY OF MCCALL MSD-302 - 40-LF
 - GRAVEL SURFACE REPAIR PER CITY OF MCCALL MSD-303/C500. 508-LF
 - CONNECT TO EXISTING 8-INCH GATE VALVE. PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS, POT HOLE CONNECTION POINTS TO VERIFY LOCATION, MATERIALS, AND SIZES OF EXISTING WATER MAINS.
 - PRIOR TO CONSTRUCTION, POT HOLE EXISTING UTILITY TO VERIFY LOCATION & ELEVATION.
 - POTENTIAL SEWER MAIN & LATERAL CROSSING. MAINTAIN 18-INCHES VERTICAL SEPARATION. SEE ISPWC SD-407 FOR POTABLE/NON-POTABLE CROSSINGS.
 - FOLLOWING TESTING AND APPROVAL OF REPLACEMENT WATER MAINS, CAP/ABANDON BOTH ENDS OF EX. 2-INCH WATER MAIN IN PLACE.
 - REFER TO GENERAL NOTE 16 & 21 SHEET C002 FOR TEMPORARY WATERLINE SHUTDOWNS. CONTRACTOR IS TO ANTICIPATE UP TO TWO (2) TEMPORARY SHUTDOWNS.
 - INSTALL SINGLE 1" WATER SERVICE PER MSD-401/SHEET C501. REMOVE EX. METER PIT AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 1-1/2" DOUBLE WATER SERVICE PER MSD-402/SHEET C501. REMOVE EX. METER PITS AND PERFORM SERVICE CROSSOVER AND METER SWAP FROM OLD TO NEW PIT AFTER NEW WATER LINES ARE FULLY TESTED AND APPROVED. METER PIT LOCATION TO BE FIELD VERIFIED AND APPROVED BY OWNER TO ACCOUNT FOR EXISTING UTILITIES. SERVICE TAPS SHALL BE A MINIMUM OF 2 FEET APART.
 - INSTALL 8-INCH GATE VALVE, MSD-412/C500
 - INSTALL 8-INCH DR18 C900 PVC - 543-LF TOTAL, C500
 - INSTALL 8-INCH, 11.25° BEND
 - INSTALL 8-INCH, 22.5° BEND
 - INSTALL 8-INCH, 45° BEND
 - INSTALL 8-INCH, 90° BEND
 - INSTALL 8 X 6 REDUCER
 - INSTALL 8 X 4 REDUCER
 - INSTALL 8-INCH, TEE
 - INSTALL 4-INCH DR18 C900 PVC - 20-LF TOTAL, C500
 - INSTALL 4-INCH, 11.25° BEND
 - INSTALL 4-INCH, 22.5° BEND
 - REMOVE ±25-LF OF EXISTING 4-INCH WATER MAIN. INSTALL RESTRAINED CAP/PLUG IN EXISTING 4-INCH GATE VALVE & CLOSE VALVE.
 - REMOVE ±25-LF OF EXISTING 4-INCH WATER MAIN PIPE. INSTALL CAP ON PIPE OUTSIDE 8-INCH WATER MAIN TRENCH.
 - INSTALL NEW 6" FIRE HYDRANT ASSEMBLY PER DETAIL 1, SHEET C502
 - INSTALL BOLLARDS 4-LF APART AND 4-LF MIN IN FRONT OF METER PIT PER DETAIL 3, SHEET C503
 - INSTALL 20-LF CASING WHERE 18-INCH VERTICAL SEPARATION CANNOT BE ACHIEVED. CASING SHALL BE CENTERED AT CROSSING. CARRIER PIPE SHALL BE CENTERED AXIALLY IN CASING USING SKIDS/SPACERS PER ISPWC SECTION 308 AND SHALL INCLUDE END SEALS.

NOTES

- ALL MECHANICAL JOINT RESTRAINTS ARE TO BE PAID FOR BY THE CONTRACTOR UNLESS AGREED TO BY THE CITY. THE MINIMUM RESTRAINT LENGTHS ARE SHOWN IN THE PROFILE SHOULD THE CONTRACTOR ELECT TO USE THEM.



PROPOSED FEATURES LEGEND

- 8" W: 8" WATER
- 6" W: 6" WATER
- WSL: WATER SERVICE LINE
- WV: WATER VALVE
- SM: SINGLE WATER METER
- DM: DOUBLE WATER METER
- FHA: FIRE HYDRANT ASSEMBLY
- SA: SAWCUT ASPHALT
- GR: GRAVEL SURFACE REPAIR

EXISTING FEATURES LEGEND

- P/L: PROPERTY LINE
- R/W: RIGHT-OF-WAY
- ACL: APPROXIMATE CENTERLINE
- E: EASEMENT
- QL: QUARTER LINE
- EG: EDGE OF GRAVEL
- EP: EDGE OF PAVEMENT
- CLF: CHAIN LINK FENCE
- 2"W: 2" WATER
- 4"W: 4" WATER
- 6"W: 6" WATER
- 8"W: 8" WATER
- SS: GRAVITY SEWER MAIN
- OHP: OVERHEAD POWER
- T: TREES
- #: SURVEY CONTROL POINTS
- W: SINGLE WATER METER
- W2: DOUBLE WATER METER

SPF

FOR

RIVER QUARRY AT PARKCENTER
412 E PARKCENTER BLVD, SUITE 100
BOISE, ID 83706

SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
CITY OF MCCALL

CHULA RD WATER MAIN PLAN & PROFILE

REVISIONS	DATE	DESCRIPTION
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1	11/21/22	REISSUED FOR BIDDING & CONSTRUCTION
2	11/23/22	ADDENDUM 1

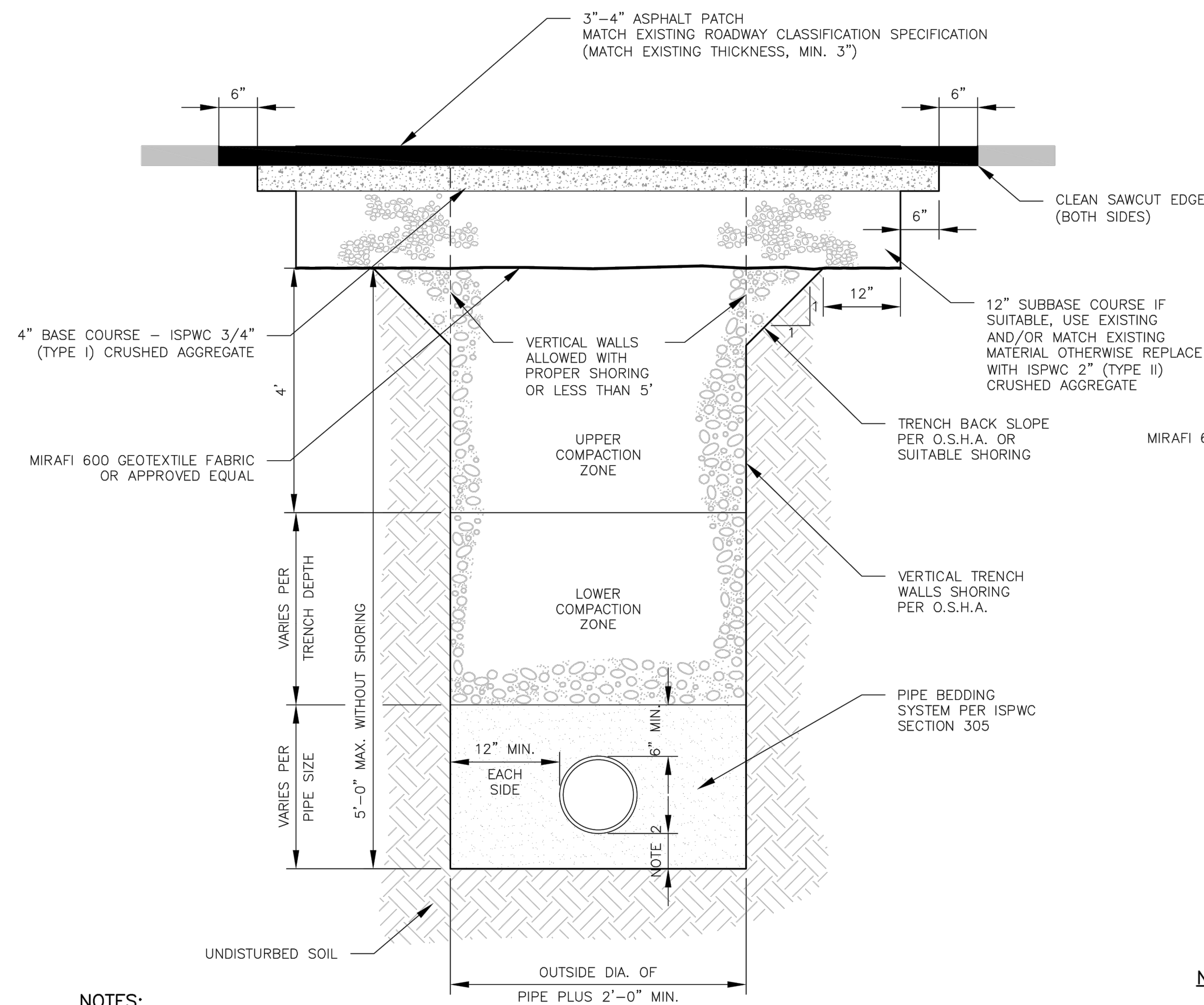
VERIFY SCALE

BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
 DESIGNED: HW
 DRAWN: HW
 CHECKED: MB

C204

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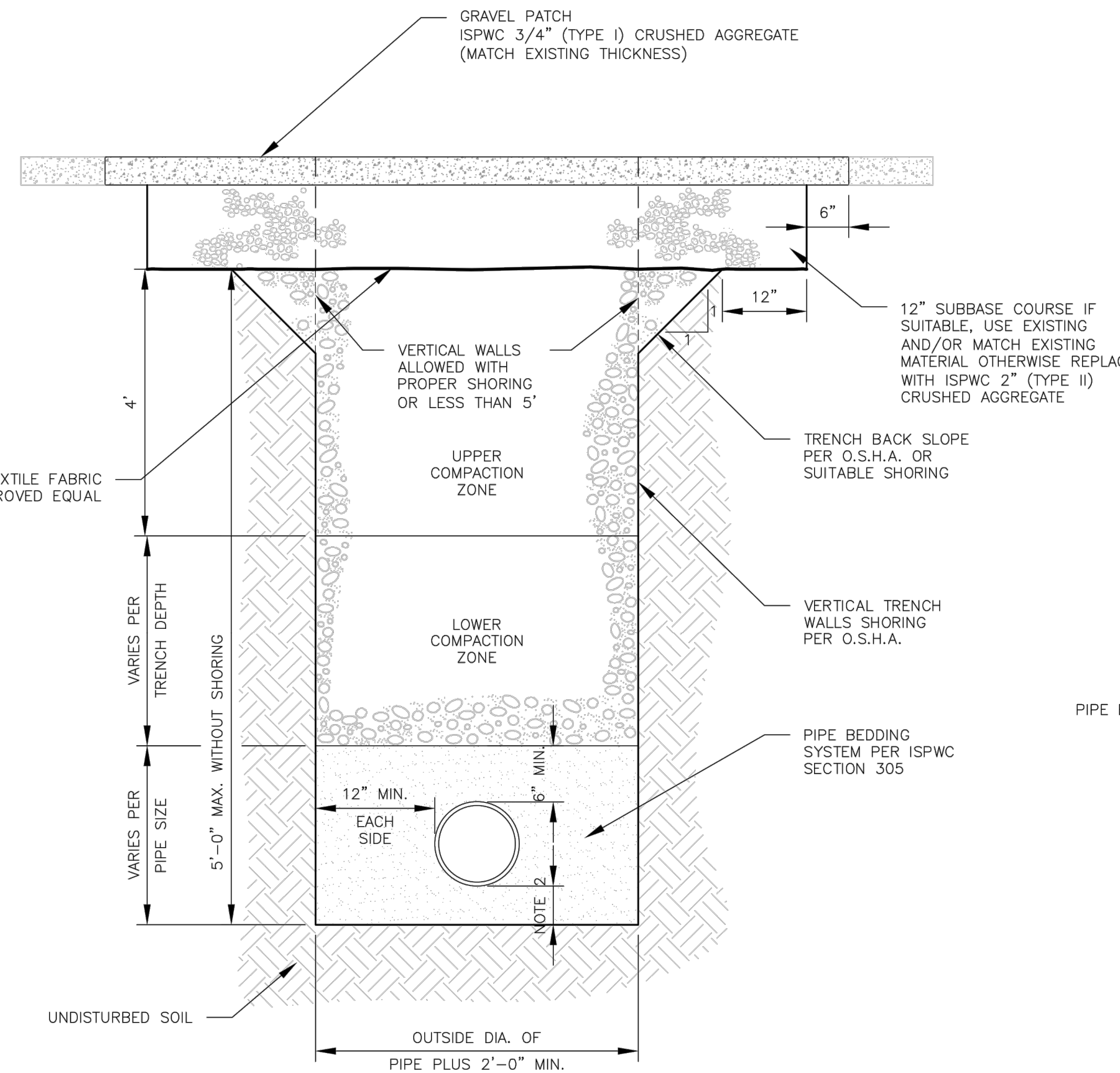
1. TRENCH EXCAVATION PER ISPWC SECTION 301.
2. PIPE BEDDING PER ISPWC SECTION 305.
3. BACKFILL AND COMPACTION PER ISPWC SECTION 306.
4. REFER TO ISPWC SECTION 304 FOR ADDITIONAL INFORMATION ON TRENCH FOUNDATION STABILIZATION IF NECESSARY FOR PROJECT CONSTRUCTION.
5. STREET CUTS AND SURFACE REPAIRS PER ISPWC SECTION 307 UNLESS OTHERWISE SHOWN IN THIS DETAIL.
6. ASPHALT CUTS AND PATCHES WILL NOT BE ALLOWED WITHIN THE WHEEL PATHS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF McCALL PUBLIC WORKS DEPARTMENT.
7. ALL WORKMANSHIP LOCATED WITHIN A CITY OF McCALL RIGHT-OF-WAY TO CARRY A 2-YEAR WARRANTY.

MSD-302 TRENCH AND ASPHALT SURFACE DETAIL

NOT TO SCALE

***TRENCH BACKFILL IN ITD ROW NOTES:**
 LEAN CONCRETE BACKFILL SHALL CONFORM TO THESE APPROXIMATE MATERIALS PROPORTIONS FOR 1 CUBIC YARD:
 PORTLAND CEMENT: 94 LBS.
 COARSE AGGREGATE FOR CONCRETE-SIZE 1: 2,600 LBS., PER SUBSECTION 703.02:
 FINE AGGREGATE FOR CONCRETE: 800 LBS. PER SUBSECTION 703.02
 WATER: 30-46 GALLONS. WATER CONTENT GIVEN IS A MAXIMUM AND MAY BE REDUCED.
 CARE SHALL BE TAKEN TO ASSURE THAT EXCESS WATER IS NOT PRESENT IN THE MIXING DRUM PRIOR TO CHARGING THE MIXER WITH MATERIALS.
 THOROUGH MIXING WILL BE REQUIRED PRIOR TO DISCHARGE.

***ASPHALT REPAIR IN ITD ROW NOTES:**
 SURFACE COURSES AND PAVEMENT SECTION 405
 MATERIALS & TESTING - CERTIFICATION AND MATERIALS
 MINIMUM DEPTH 0.45'- SUPERPAVE HOT MIX ASPHALT SP3 1/2 -INCH NOMINAL MAXIMUM AGGREGATE, USING PG 64-34 BINDER OR BETTER INCLUDE 0.5% ANTI-STRIP ADDITIVE IN ACCORDANCE TO SUBSECTION 405

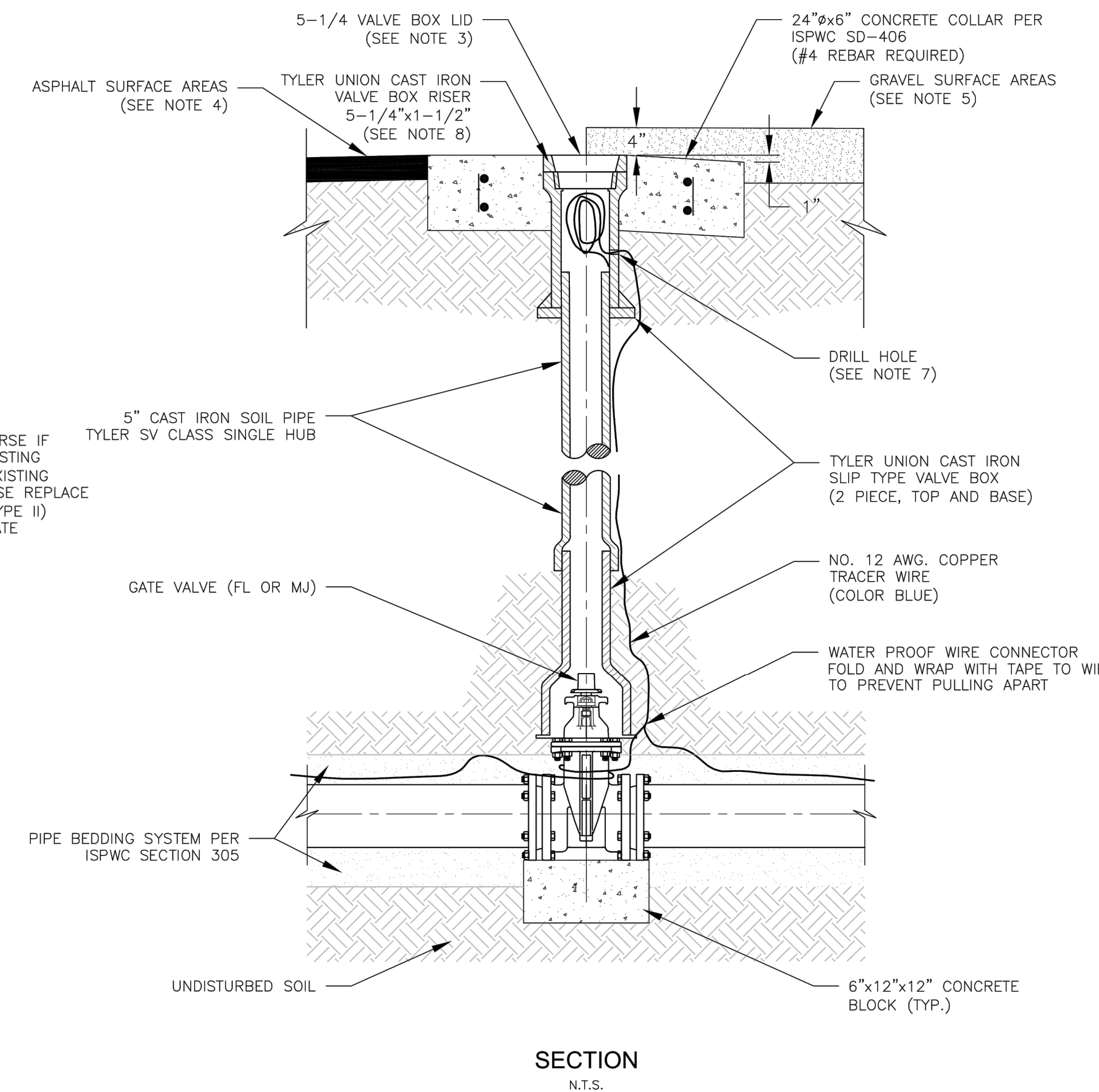


NOTES:

1. TRENCH EXCAVATION PER ISPWC SECTION 301.
2. PIPE BEDDING PER ISPWC SECTION 305.
3. BACKFILL AND COMPACTION PER ISPWC SECTION 306.
4. REFER TO ISPWC SECTION 304 FOR ADDITIONAL INFORMATION ON TRENCH FOUNDATION STABILIZATION IF NECESSARY FOR PROJECT CONSTRUCTION.
5. STREET CUTS AND SURFACE REPAIRS PER ISPWC SECTION 307 UNLESS OTHERWISE SHOWN IN THIS DETAIL.
6. ASPHALT CUTS AND PATCHES WILL NOT BE ALLOWED WITHIN THE WHEEL PATHS WITHOUT PRIOR WRITTEN APPROVAL FROM THE CITY OF McCALL PUBLIC WORKS DEPARTMENT.
7. ALL WORKMANSHIP LOCATED WITHIN A CITY OF McCALL RIGHT-OF-WAY TO CARRY A 2-YEAR WARRANTY.

MSD-303 TYPICAL TRENCH AND GRAVEL SURFACE REPAIR

NOT TO SCALE



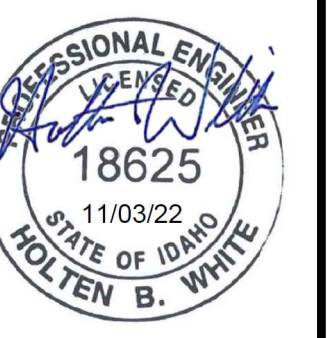
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N.T.S.

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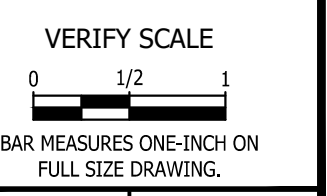
1. ALL GATE VALVES SHALL BE NON-RISING STEM RESILIENT SEATED GATE VALVES MEETING ANSI/AWWA C515 FOR WATER SUPPLY SERVICE.
2. CLEAN VALVE BOX OF ALL DEBRIS AND SOIL.
3. ALL VALVE BOX LIDS TO BE 5 1/4" DROP LIDS. ALL WATER VALVE BOX LIDS TO BE STAMPED "WATER" AND ALL FIRE VALVE BOX LIDS TO BE STAMPED "FIRE".
4. FOR ASPHALT SURFACE, CONCRETE COLLAR TO BE 1/4" BELOW FINISHED GRADE.
5. FOR GRAVEL ROADWAY SURFACE, CONCRETE COLLAR TO BE 4" BELOW FINISHED GRADE AND SLOPED AWAY FROM VALVE BOX LID SO THAT OUTSIDE EDGE IS 1" LOWER.
6. VALVE BOXES OUTSIDE OF PAVED OR GRAVEL ROADWAYS SHALL HAVE A CONCRETE COLLAR POURED TO BE FLUSH WITH FINISHED GRADE.
7. DRILL 7/8" HOLE IN TOP PORTION OF VALVE BOX. PLACE PCV VALVE GROMMET INTO HOLE AND ROUTE TRACER WIRE THROUGH HOLE.
8. TYLER UNION CAST IRON RISER IS NOT TO BE USED WITHIN STATE HIGHWAYS. ONLY FOR USE WITHIN CITY OF McCALL ROADWAYS.

MSD-412 STANDARD VALVE AND VALVE BOX INSTALLATION

NOT TO SCALE



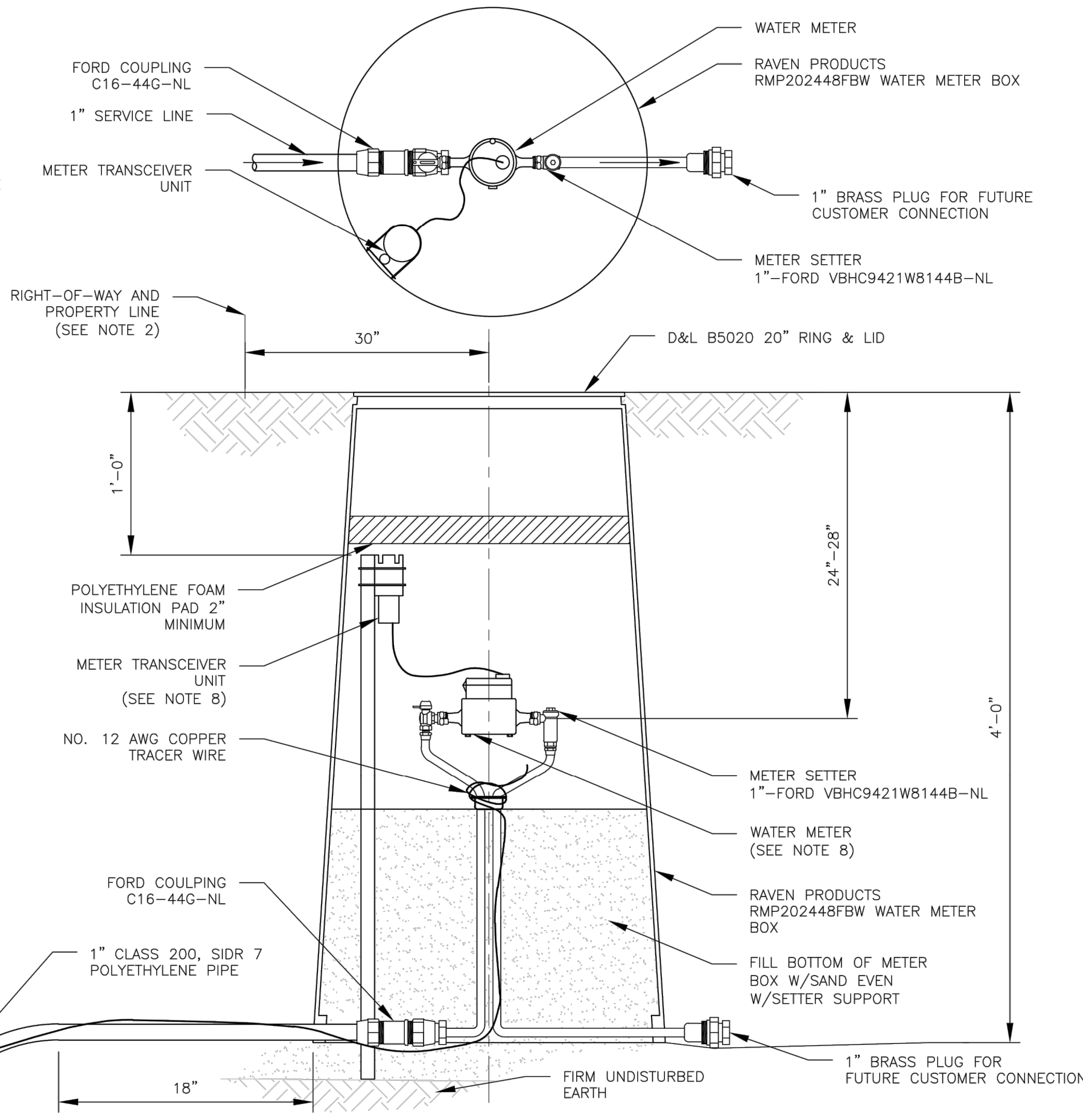
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PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB

NOTES:

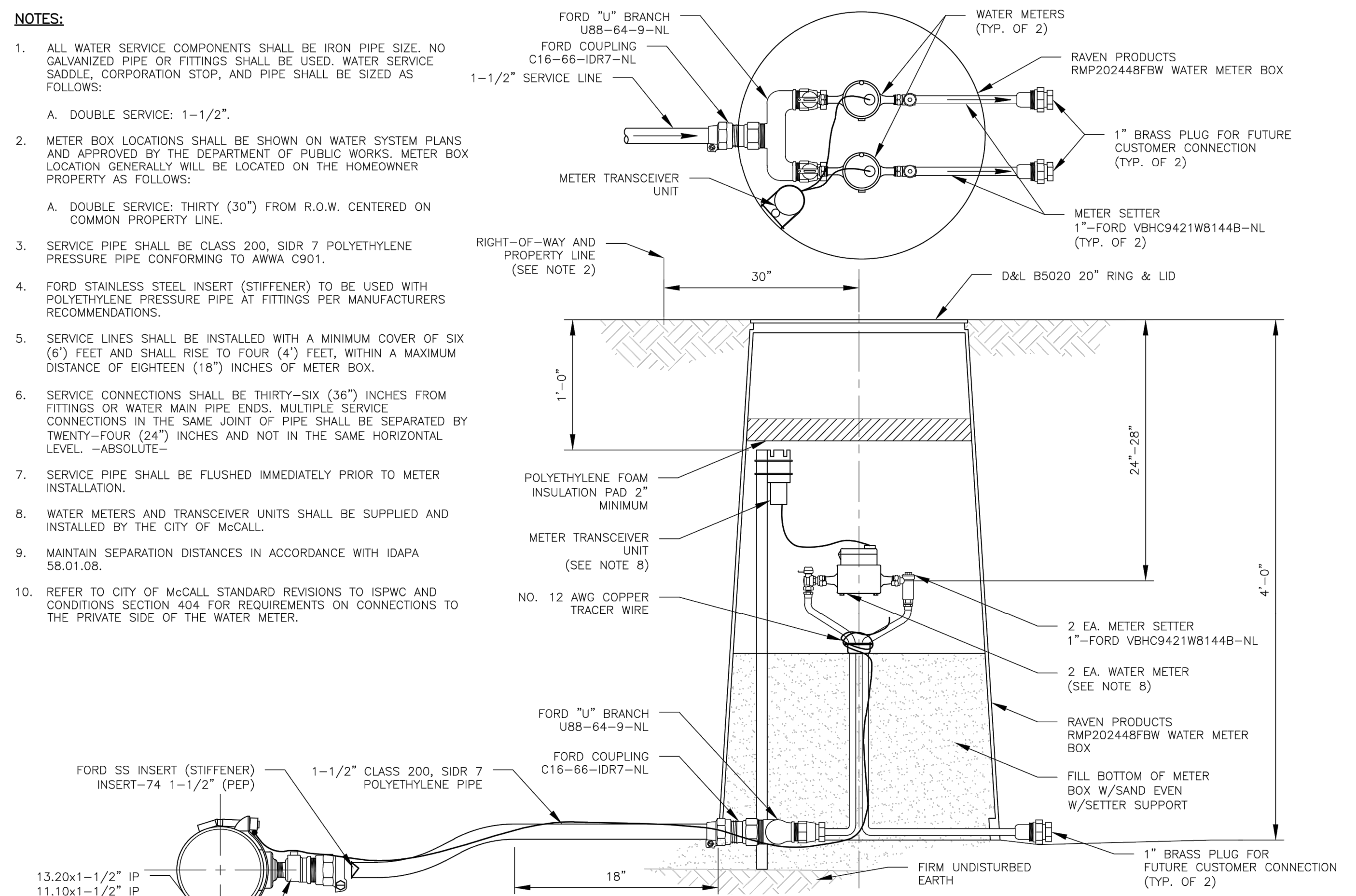
- ALL WATER SERVICE COMPONENTS SHALL BE IRON PIPE SIZE. NO GALVANIZED PIPE OR FITTINGS SHALL BE USED. WATER SERVICE SADDLE, CORPORATION STOP, AND PIPE SHALL BE SIZED AS FOLLOWS:
 - A. SINGLE SERVICE: 1".
- METER BOX LOCATIONS SHALL BE SHOWN ON WATER SYSTEM PLANS AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS. METER BOX LOCATION GENERALLY WILL BE LOCATED ON THE HOMEOWNER PROPERTY AS FOLLOWS:
 - A. SINGLE SERVICE: THIRTY (30") FROM R.O.W. CENTERED ON COMMON PROPERTY LINE.
- SERVICE PIPE SHALL BE CLASS 200, SIDR 7 POLYETHYLENE PRESSURE PIPE CONFORMING TO AWWA C901.
- FORD STAINLESS STEEL INSERT (STIFFENER) TO BE USED WITH POLYETHYLENE PRESSURE PIPE AT FITTINGS PER MANUFACTURERS RECOMMENDATIONS.
- SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF SIX (6') FEET AND SHALL RISE TO FOUR (4') FEET, WITHIN A MAXIMUM DISTANCE OF EIGHTEEN (18") INCHES OF METER BOX.
- SERVICE CONNECTIONS SHALL BE THIRTY-SIX (36") INCHES FROM FITTINGS OR WATER MAIN PIPE ENDS. MULTIPLE SERVICE CONNECTIONS IN THE SAME JOINT OF PIPE SHALL BE SEPARATED BY TWENTY-FOUR (24") INCHES AND NOT IN THE SAME HORIZONTAL LEVEL. -ABSOLUTE-
- SERVICE PIPE SHALL BE FLUSHED IMMEDIATELY PRIOR TO METER INSTALLATION.
- WATER METERS AND TRANSCIEVER UNITS TO BE SUPPLIED AND INSTALLED BY THE CITY OF McCALL.
- MAINTAIN SEPARATION DISTANCES IN ACCORDANCE WITH IDAPA 58.01.08.
- REFER TO CITY OF McCALL STANDARD REVISIONS TO ISPCW AND CONDITIONS SECTION 404 FOR REQUIREMENTS ON CONNECTIONS TO THE PRIVATE SIDE OF THE WATER METER.



MSD-401 SINGLE WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

NOTES:

- ALL WATER SERVICE COMPONENTS SHALL BE IRON PIPE SIZE. NO GALVANIZED PIPE OR FITTINGS SHALL BE USED. WATER SERVICE SADDLE, CORPORATION STOP, AND PIPE SHALL BE SIZED AS FOLLOWS:
 - A. DOUBLE SERVICE: 1-1/2".
- METER BOX LOCATIONS SHALL BE SHOWN ON WATER SYSTEM PLANS AND APPROVED BY THE DEPARTMENT OF PUBLIC WORKS. METER BOX LOCATION GENERALLY WILL BE LOCATED ON THE HOMEOWNER PROPERTY AS FOLLOWS:
 - A. DOUBLE SERVICE: THIRTY (30") FROM R.O.W. CENTERED ON COMMON PROPERTY LINE.
- SERVICE PIPE SHALL BE CLASS 200, SIDR 7 POLYETHYLENE PRESSURE PIPE CONFORMING TO AWWA C901.
- FORD STAINLESS STEEL INSERT (STIFFENER) TO BE USED WITH POLYETHYLENE PRESSURE PIPE AT FITTINGS PER MANUFACTURERS RECOMMENDATIONS.
- SERVICE LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF SIX (6') FEET AND SHALL RISE TO FOUR (4') FEET, WITHIN A MAXIMUM DISTANCE OF EIGHTEEN (18") INCHES OF METER BOX.
- SERVICE CONNECTIONS SHALL BE THIRTY-SIX (36") INCHES FROM FITTINGS OR WATER MAIN PIPE ENDS. MULTIPLE SERVICE CONNECTIONS IN THE SAME JOINT OF PIPE SHALL BE SEPARATED BY TWENTY-FOUR (24") INCHES AND NOT IN THE SAME HORIZONTAL LEVEL. -ABSOLUTE-
- SERVICE PIPE SHALL BE FLUSHED IMMEDIATELY PRIOR TO METER INSTALLATION.
- WATER METERS AND TRANSCIEVER UNITS SHALL BE SUPPLIED AND INSTALLED BY THE CITY OF McCALL.
- MAINTAIN SEPARATION DISTANCES IN ACCORDANCE WITH IDAPA 58.01.08.
- REFER TO CITY OF McCALL STANDARD REVISIONS TO ISPCW AND CONDITIONS SECTION 404 FOR REQUIREMENTS ON CONNECTIONS TO THE PRIVATE SIDE OF THE WATER METER.



MSD-402 DOUBLE WATER SERVICE CONNECTION DETAIL
NOT TO SCALE

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SUNSET PLACID CAMMY CHULA WATER MAIN UPGRADES
CITY OF MCCALL

CIVIL DETAILS (2)

FOR SPF
RIVER QUARRY AT PARKCENTER
412 E PARKCENTER BLVD, SUITE 100
BOISE, ID 83706



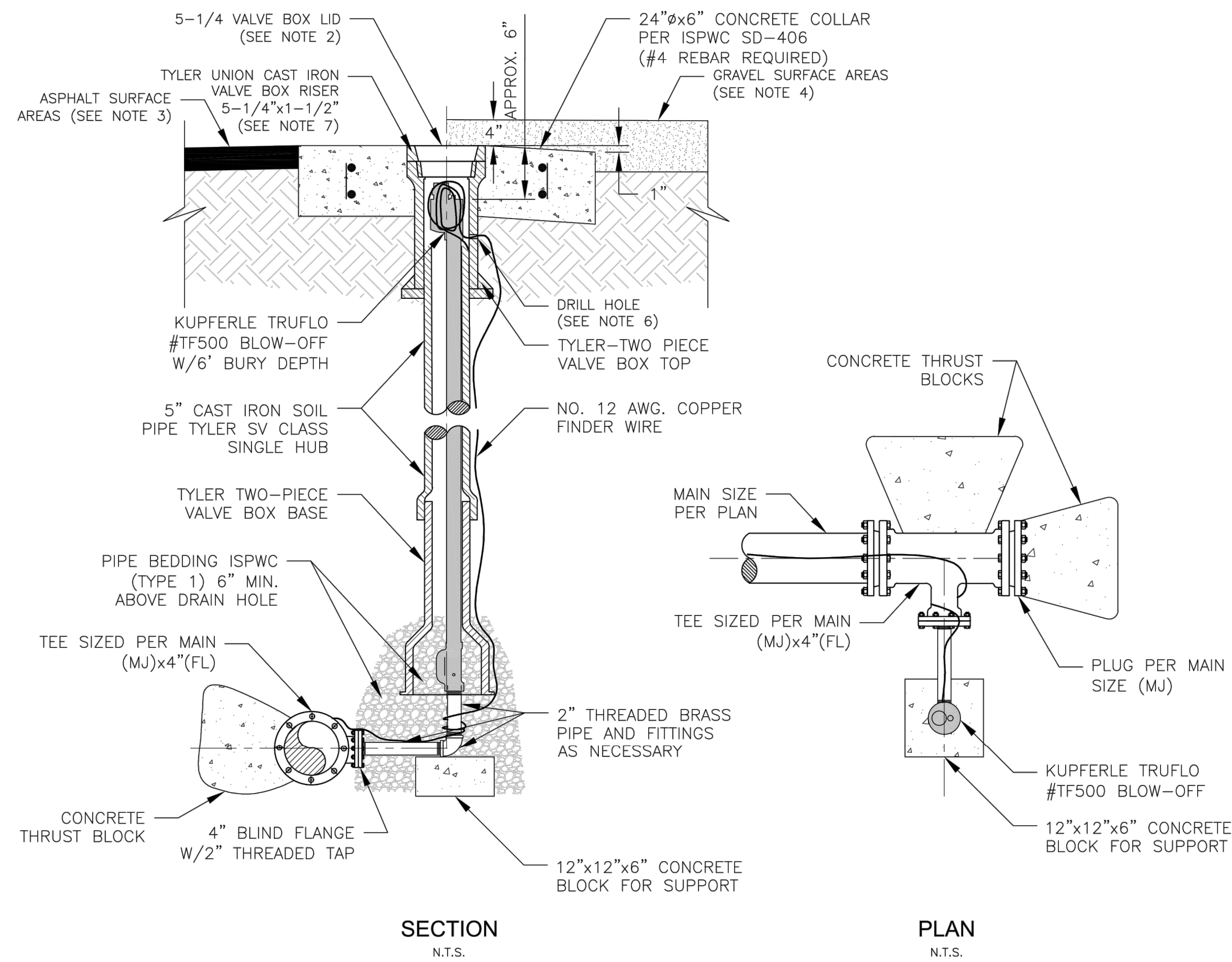
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0	ISSUED FOR BIDDING & CONSTRUCTION	10/24/22

VERIFY SCALE
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BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.

PROJECT: 608.0450
DESIGNED: HW
DRAWN: HW
CHECKED: MB

C501

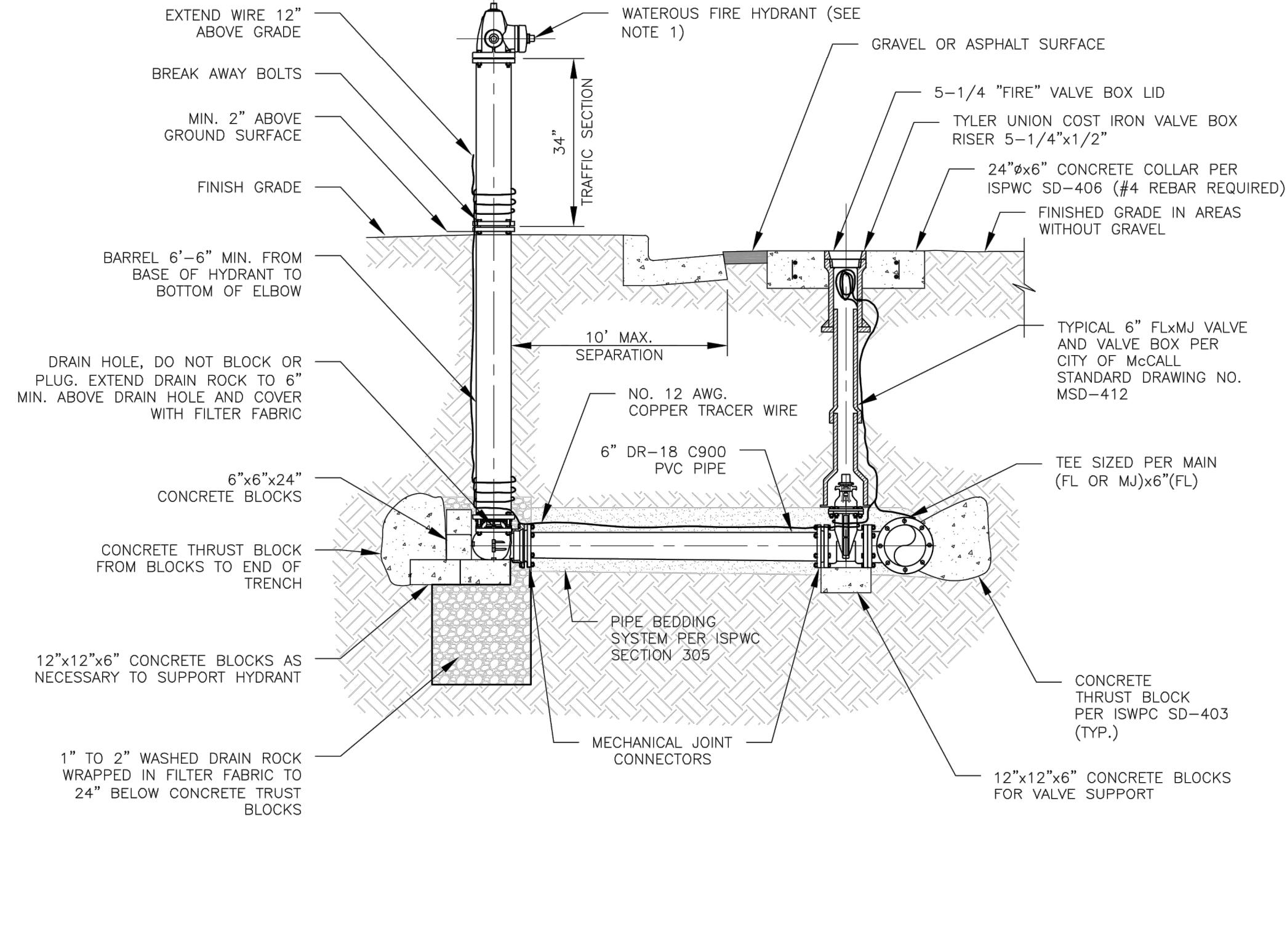
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Xref File name: | X-TITLE |



NOTES:

- CLEAN VALVE BOX OF ALL DEBRIS AND SOIL.
- ALL VALVE BOX LIDS TO BE 5 1/4" DROP LIDS. ALL WATER VALVE BOX LIDS TO BE STAMPED "WATER" AND ALL FIRE VALVE BOX LIDS TO BE STAMPED "FIRE".
- FOR ASPHALT SURFACE, CONCRETE COLLAR TO BE 1/4" BELOW FINISHED GRADE.
- FOR GRAVEL ROADWAY SURFACE, CONCRETE COLLAR TO BE 4" BELOW FINISHED GRADE AND SLOPED AWAY FROM VALVE BOX LID SO THAT OUTSIDE EDGE IS 1" LOWER.
- VALVE BOXES OUTSIDE OF PAVED OR GRAVEL ROADWAYS SHALL HAVE A CONCRETE COLLAR POURED TO BE FLUSH WITH FINISHED GRADE.
- DRILL 7/8" HOLE IN TOP PORTION OF VALVE BOX. PLACE PCV VALVE GROMMET INTO HOLE AND ROUTE TRACER WIRE THROUGH HOLE.
- TYLER UNION CAST IRON RISER IS NOT TO BE USED WITHIN STATE HIGHWAYS. ONLY FOR USE WITHIN CITY OF McCALL ROADWAYS.
- REFER TO KUPFERLE TRUFLO #TF500 BLOW-OFF SPECIFICATIONS FOR ADDITIONAL INFORMATION

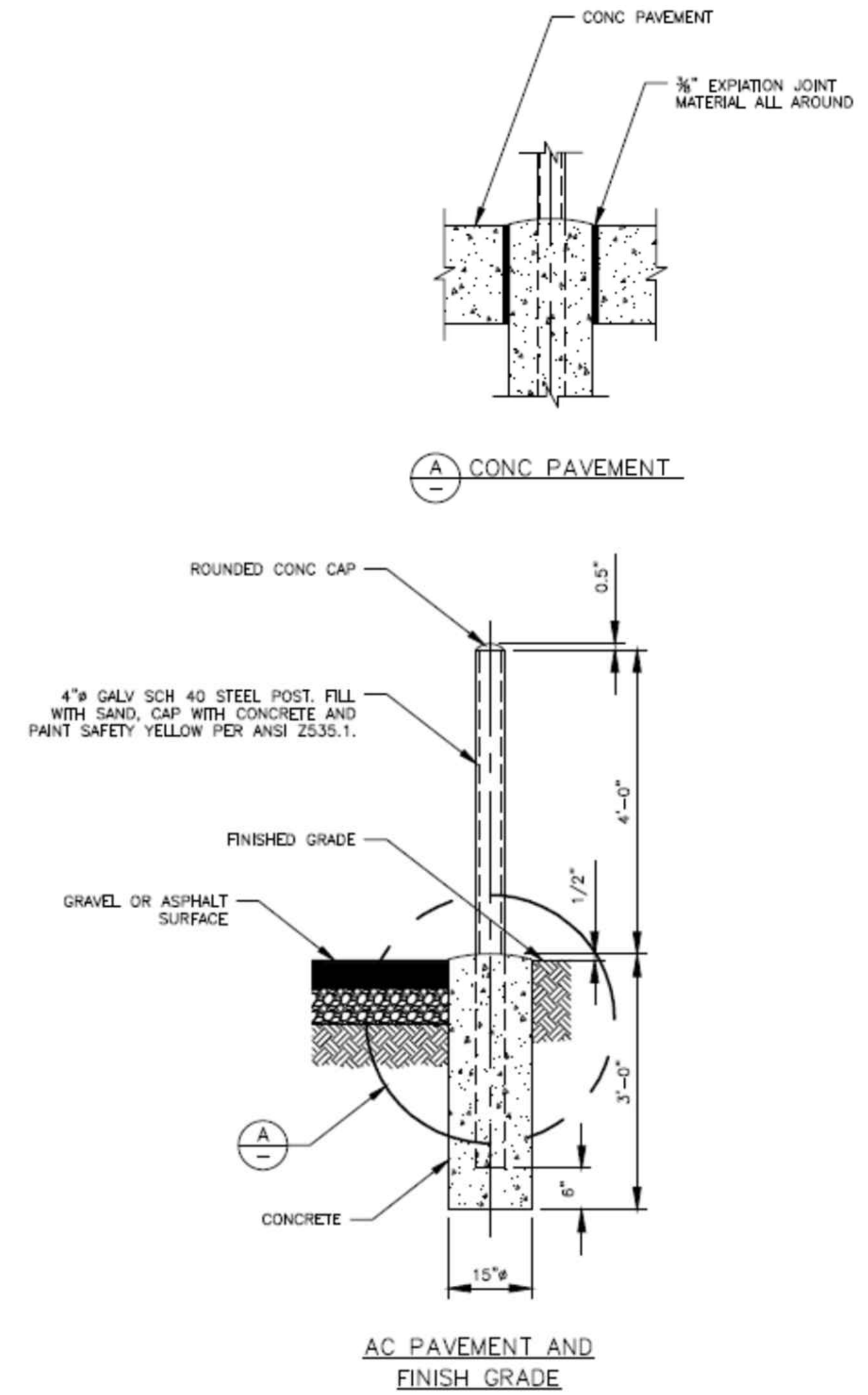
MSD-405 BLOW-OFF ASSEMBLY DETAIL
NOT TO SCALE



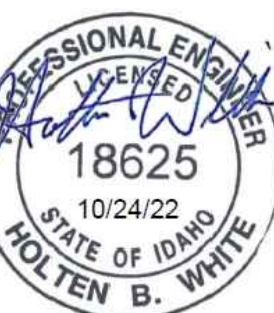
NOTES:

- FIRE HYDRANT SHALL BE PACER 100, MODEL NO. WB67-250, WITH 1 4" PUMPER OUTLET AND 2 EA. 2-1/2" OUTLETS WITH A THIRTY-FOUR (34") INCH TRAFFIC SECTION, MADE BY WATEROUS CO. AND INSTALLED WITH THE FIRE HYDRANT HOSE ATTACHMENT FOUR (4') FEET ABOVE EXISTING GROUND. FIRE HYDRANT PAINT COLOR TO BE IN ACCORDANCE WITH LOCAL STANDARDS. 4" PUMPER NOZZLE SHALL ALIGN WITH LATERAL AND ASSOCIATED FIRE HYDRANT VALVE.
- FINAL HYDRANT LOCATIONS SHALL BE FIELD APPROVED BY THE CITY OF McCALL AND McCALL FIRE PROTECTION DISTRICT PRIOR TO INSTALLATION.
- HYDRANT SHALL NOT BE PLACED CLOSER THAN TEN (10') FEET MINIMUM FROM SEWER, FIFTY (50') FEET MINIMUM FROM SEPTIC SYSTEMS AND TWENTY FIVE (25') FEET MINIMUM FROM SEEPAGE BEDS.
- HYDRANT MUST BE INSTALLED ABOVE GROUND/SURFACE WATER AND FINISHED GRADE TO SLOPE AWAY FROM STRUCTURE.
- MINIMUM DISTANCE FROM THE FIRE HYDRANT TO THE FIRE HYDRANT GATE VALVE SHALL BE FIVE (5') FEET.
- PLACE LOCATOR WIRE DIRECTLY ABOVE PIPE. SECURE FINDER WIRE UNDER (MJ) BOLT AT MAIN.
- ALL JOINTS SHALL BE RESTRAINED. JOINT RESTRAINT DEVICES MAY BE USED AS AN ALTERNATE TO THRUST BLOCK WITH ENGINEER'S APPROVAL.
- ALL ANCHORS AND BLOCKING TO BEAR AGAINST UNDISTURBED SOIL.
- ALL AUXILIARY FIRE HYDRANT VALVES TO BE LOCATED AT THE TEE ON THE WATER MAIN AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER. WHERE EXISTING FITTINGS ARE NOT COMPATIBLE WITH NEW MAIN CONSTRUCTION, USE SUITABLE ADAPTERS OR NEW FITTINGS UPON APPROVAL BY THE ENGINEER.
- IF WATER SERVICE TO HYDRANT IS TO COMMENCE PRIOR TO SETTING OF CONCRETE THRUST BLOCKING, USE APPROVED MECHANICAL JOINT RESTRAINTS, AS APPROVED BY THE ENGINEER.
- HYDRANTS THAT ARE TO BE RELOCATED AS CALLED FOR ON THE PLANS SHALL BE REINSTALLED IN ACCORDANCE WITH THIS DETAIL. LOCATION TO BE SET IN ACCORDANCE WITH LOCAL STANDARDS OR AS DIRECTED BY THE ENGINEER.

MSD-408 FIRE HYDRANT DETAIL
NOT TO SCALE



TYPICAL BOLLARD DETAIL
NOT TO SCALE



REVISIONS	DATE	DESCRIPTION
0	10/24/22	ISSUED FOR BIDDING & CONSTRUCTION

VERIFY SCALE	0 1/2 1
BAR MEASURES ONE-INCH ON FULL SIZE DRAWING.	
PROJECT:	608.0450
DESIGNED:	HW
DRAWN:	HW
CHECKED:	MB