

DILLON RIDGE VISTAS

BLOCK 6

DILLON RIDGE MARKETPLACE

TOWN OF DILLON, SUMMIT COUNTY, COLORADO FINAL SITE PLAN AND PLAT DOCUMENTS

36 UNITS

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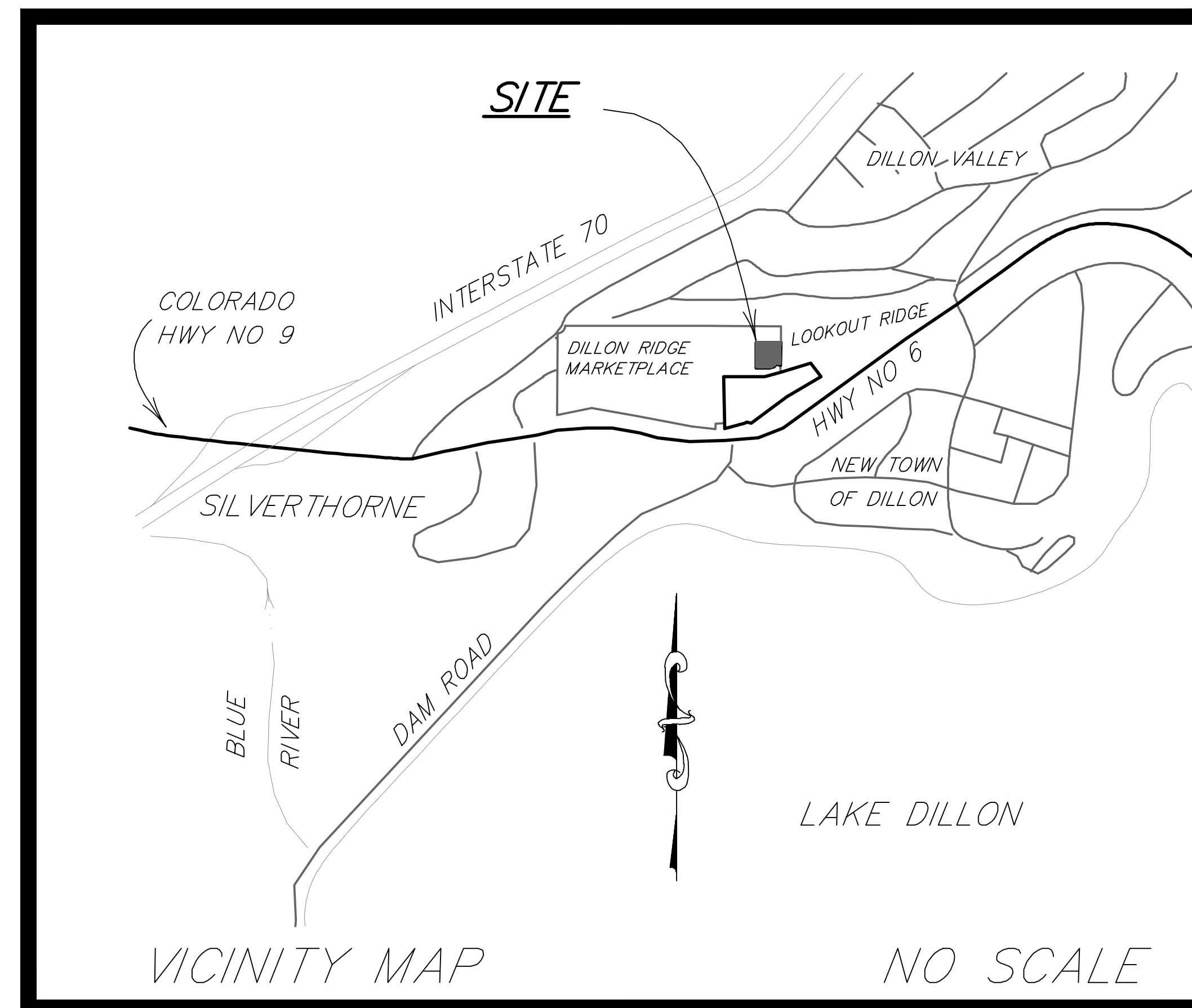
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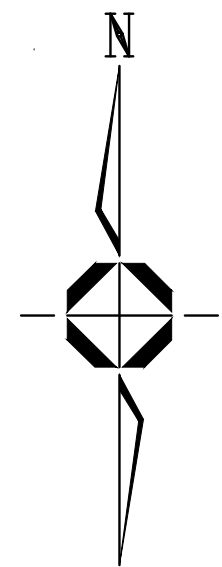


SHEET LIST TABLE

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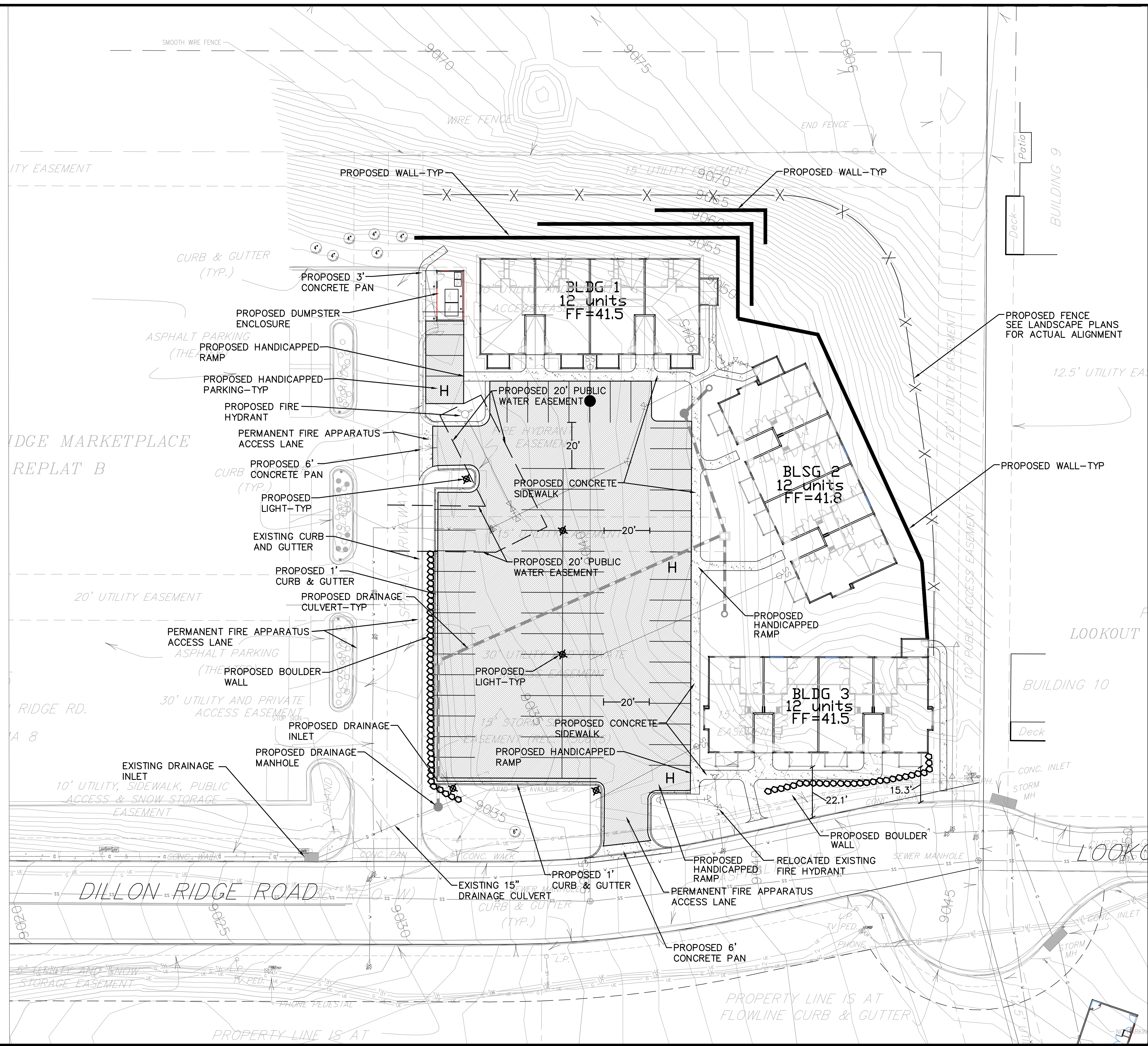


CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

0 10 20 40
SCALE: 1" = 20'
ORIGINAL GRAPHIC SCALE

LEGEND

- SANITARY MANHOLE
- RIPRAP
- STORM INLET
- STORM FES
- STORM MANHOLE
- WATER FIRE HYDRANT
- WATER MANHOLE
- WATER VALVE
- WATER STOPBOX
- ELECTRIC BREAKER BOX
- ELECTRIC METER
- ELECTRIC PEDESTAL
- LIGHT POLE
- ELECTRIC VAULT
- TELEPHONE PEDESTAL
- FIBER OPTIC MKR
- FIBER OPTICS PEDESTAL
- GAS MKR POST
- IRRIGATION CONTROL BOX
- IRRIGATION VALVE
- VENT PIPE
- BUSH EVERGREEN
- BUSH DECIDUOUS
- TREE CONIFER
- TREE DECIDUOUS
- HANDICAP RAMP
- TRAFFIC CONTROL CABINET
- TRAFFIC CONTROL VAULT
- TRAFFIC SIGNAL
- DELINEATOR
- SIGN
- ELECTRIC UNDERGROUND
- TELEPHONE LINE UNDERGROUND
- FIBER OPTIC UNDERGROUND
- CABLE TV UNDERGROUND
- GAS LINE UNDERGROUND
- STORM REINFORCED CONCRETE PIPE
- WATER LINE UNDERGROUND
- SANITARY UNDERGROUND
- FENCE
- LANDSCAPE EDGE
- TREELINE
- CROWN ROAD
- EDGE ASPHALT
- EDGE CONCRETE
- TRAIL
- CHASE
- PAN FLOWLINE
- LINEMARKING WHITE STRIPE SOLID
- LINEMARKING YELLOW STRIPE SOLID
- GUARD RAIL
- SPEED BUMP
- STEPS
- STRUCTURE
- HANDRAIL
- WALL
- CONCRETE
- ASPHALT PAVEMENT



No.	Revision/Issue	Date	Description
3	Revised per fire Dept	7/9/17	Revised per fire dept comments
2	Revised per TOD	6/24/17	Revised Handicapped Spaces
1	Revised per TOD	6/6/17	Revised per TOD Comments

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DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
TOWN OF DILLON, COLORADO
SITE AND EASEMENT PLAN

Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 3
Scale 1"=20'	

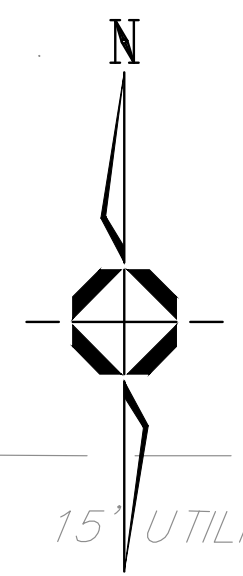
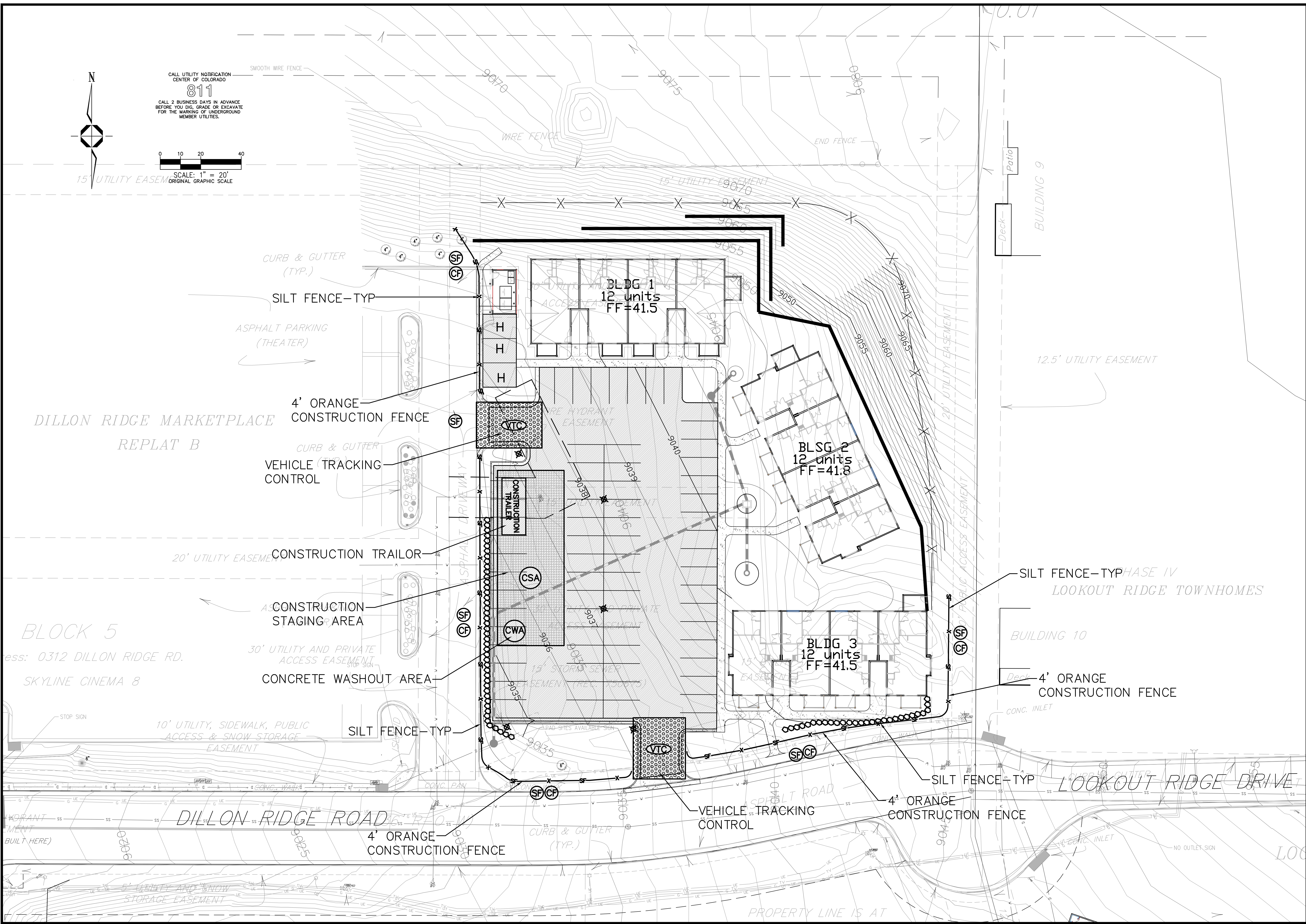


No.	Revision/Issue	Date	Revised per TOD Comments Description
1		6/6/17	

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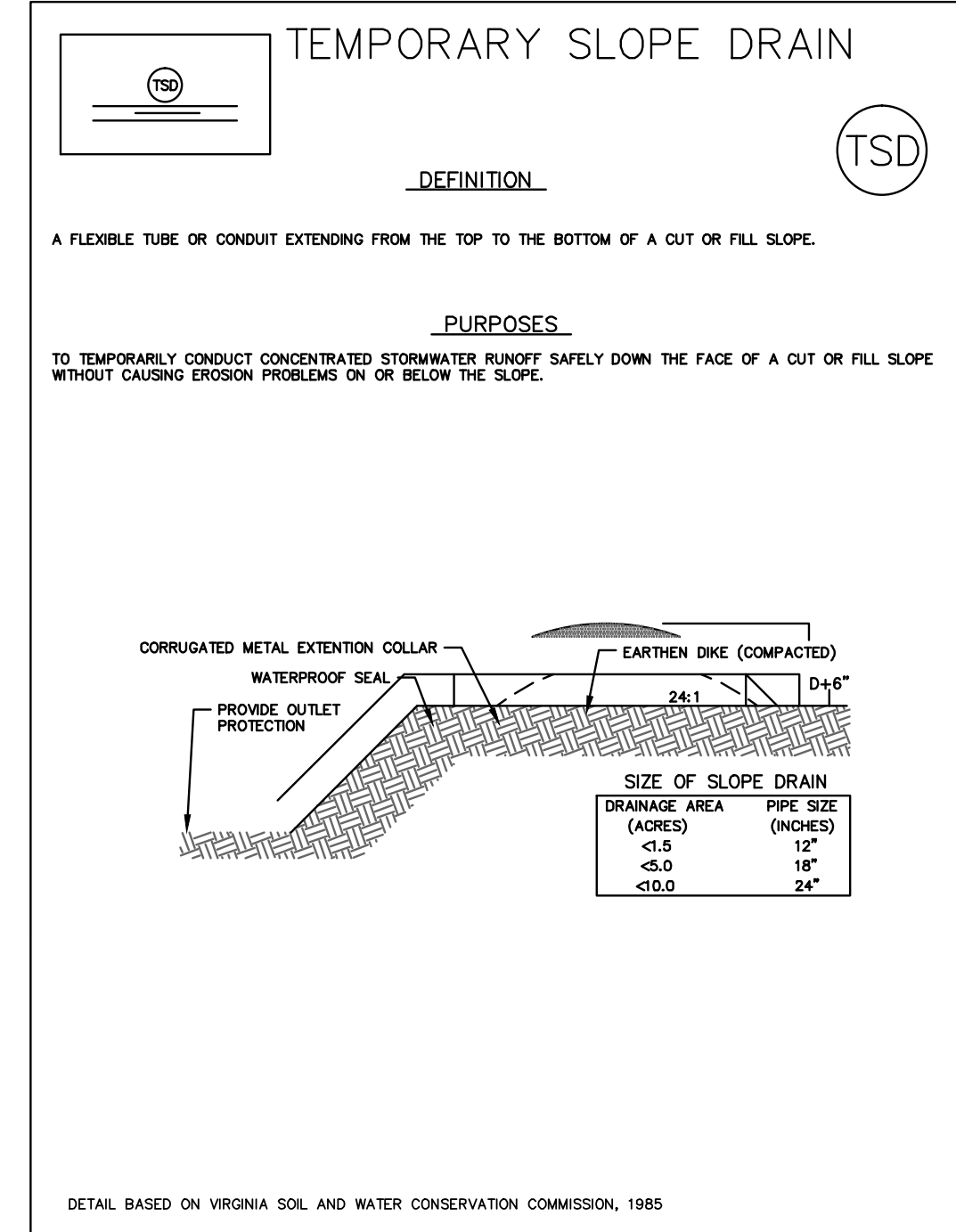
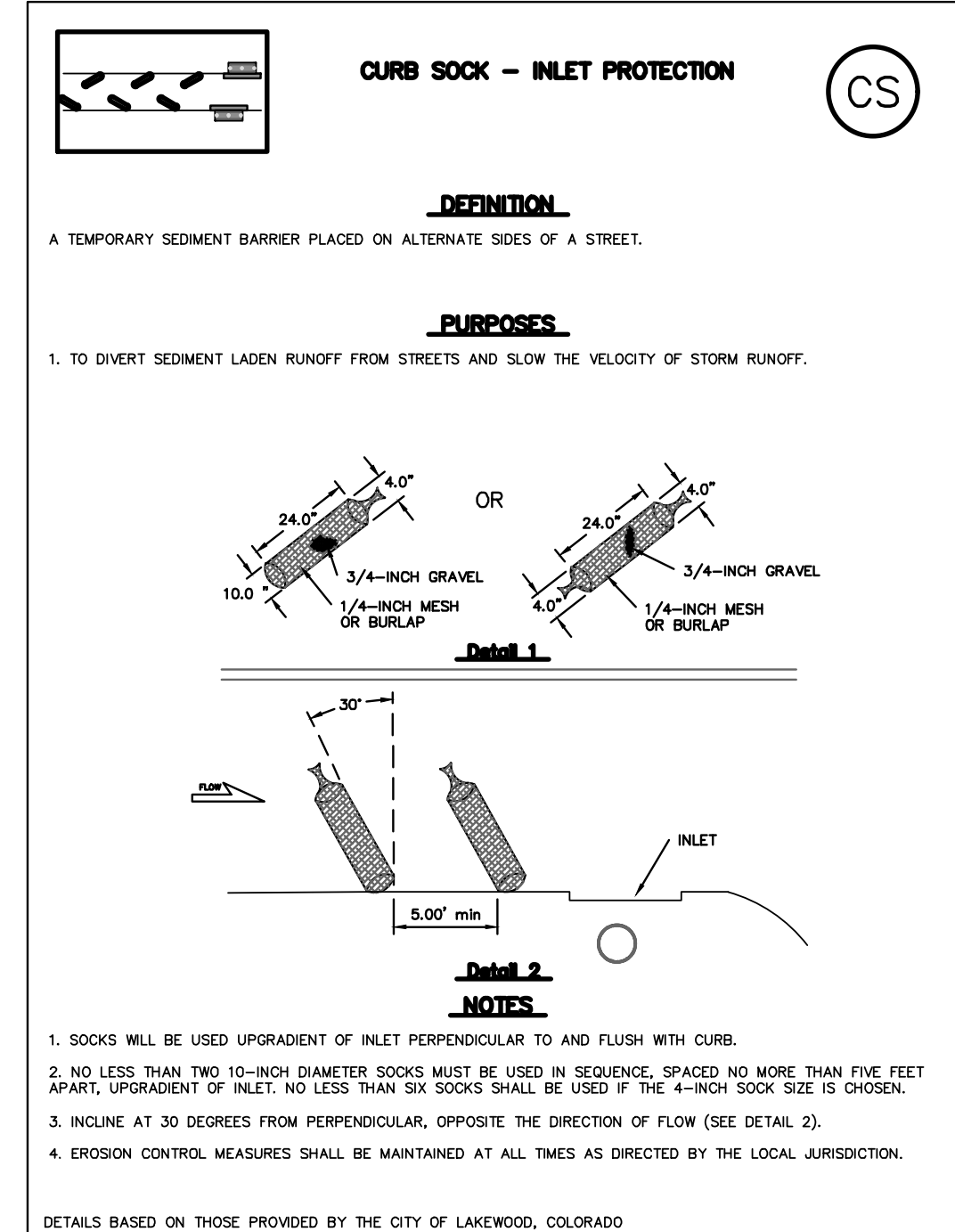
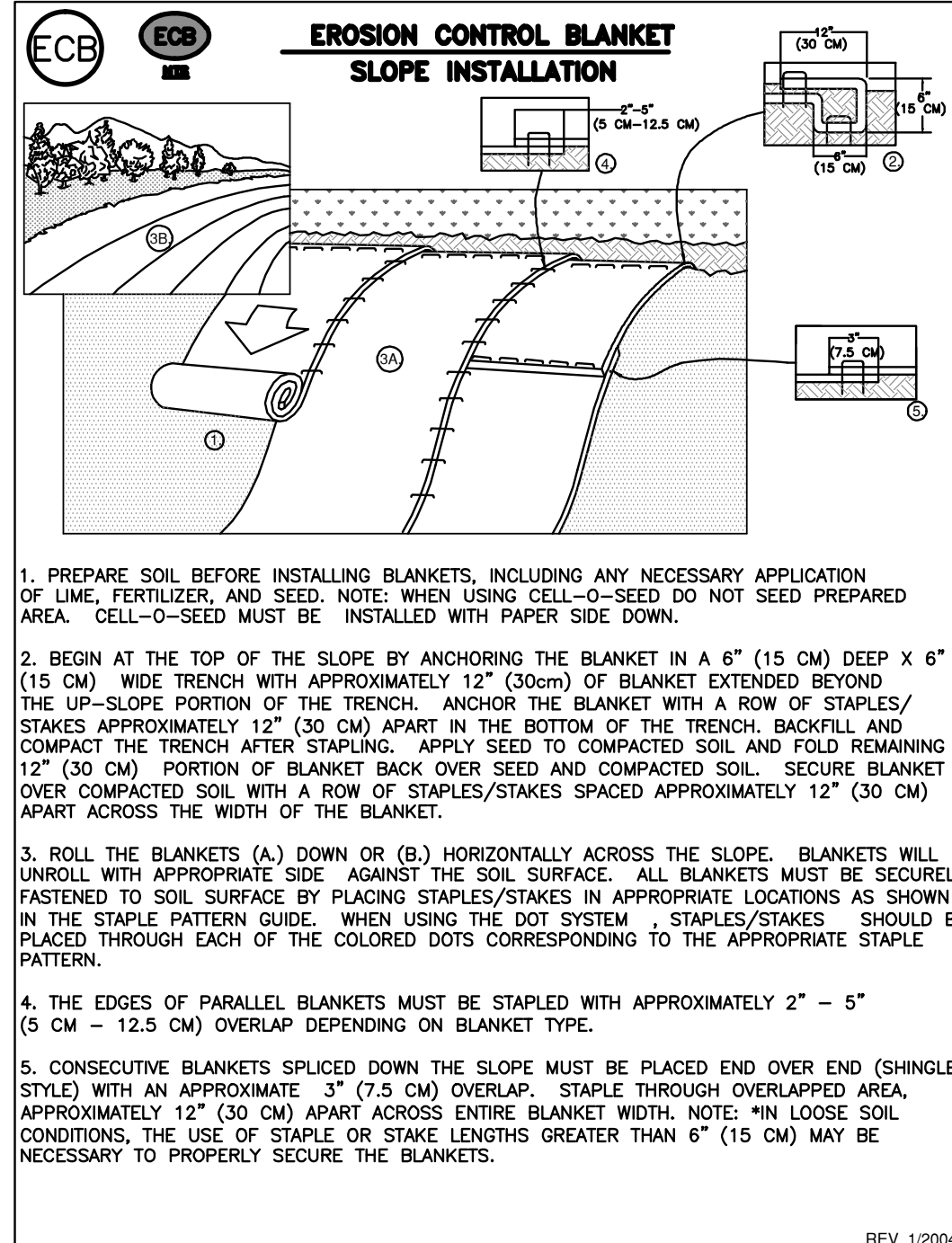
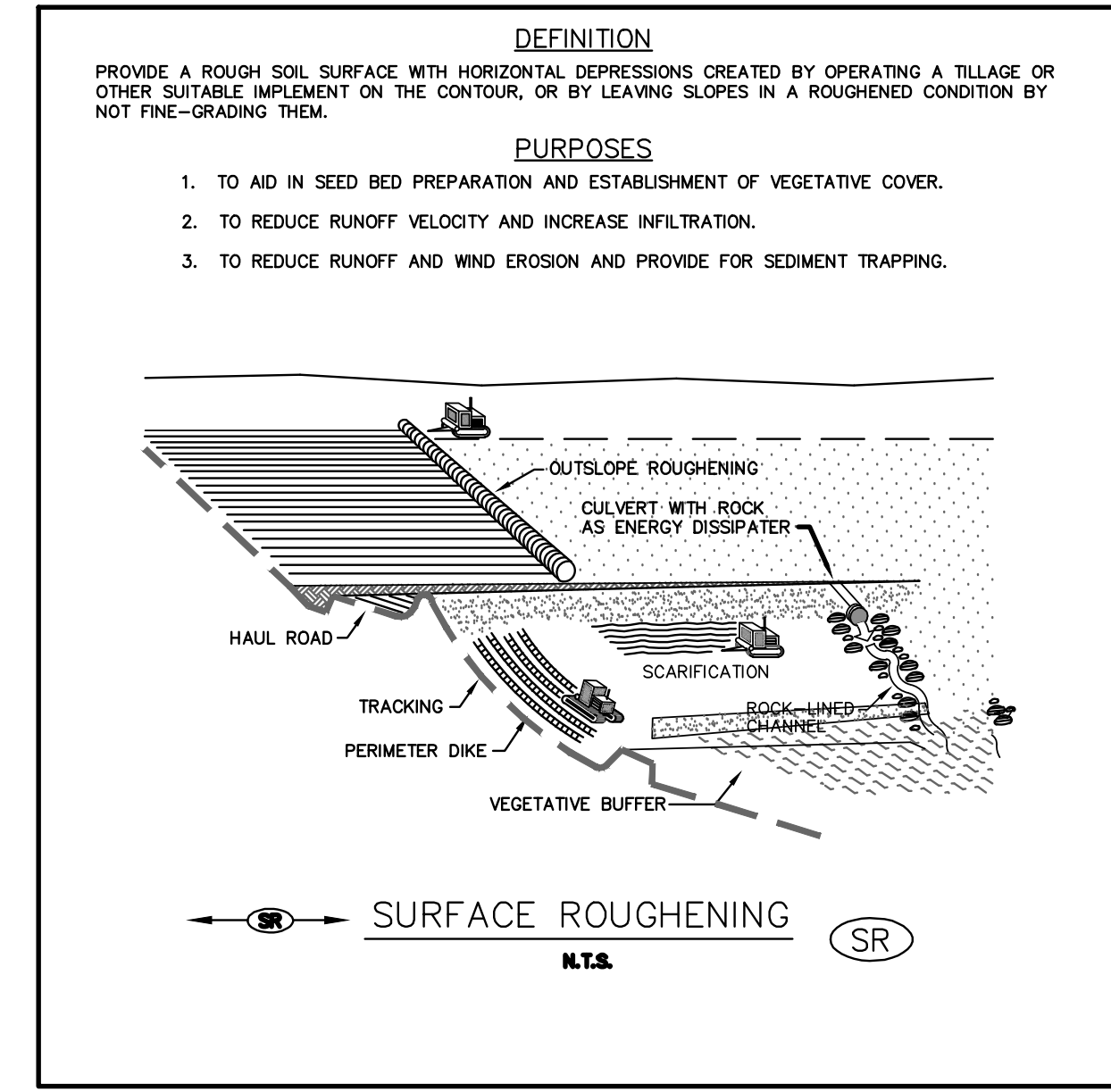
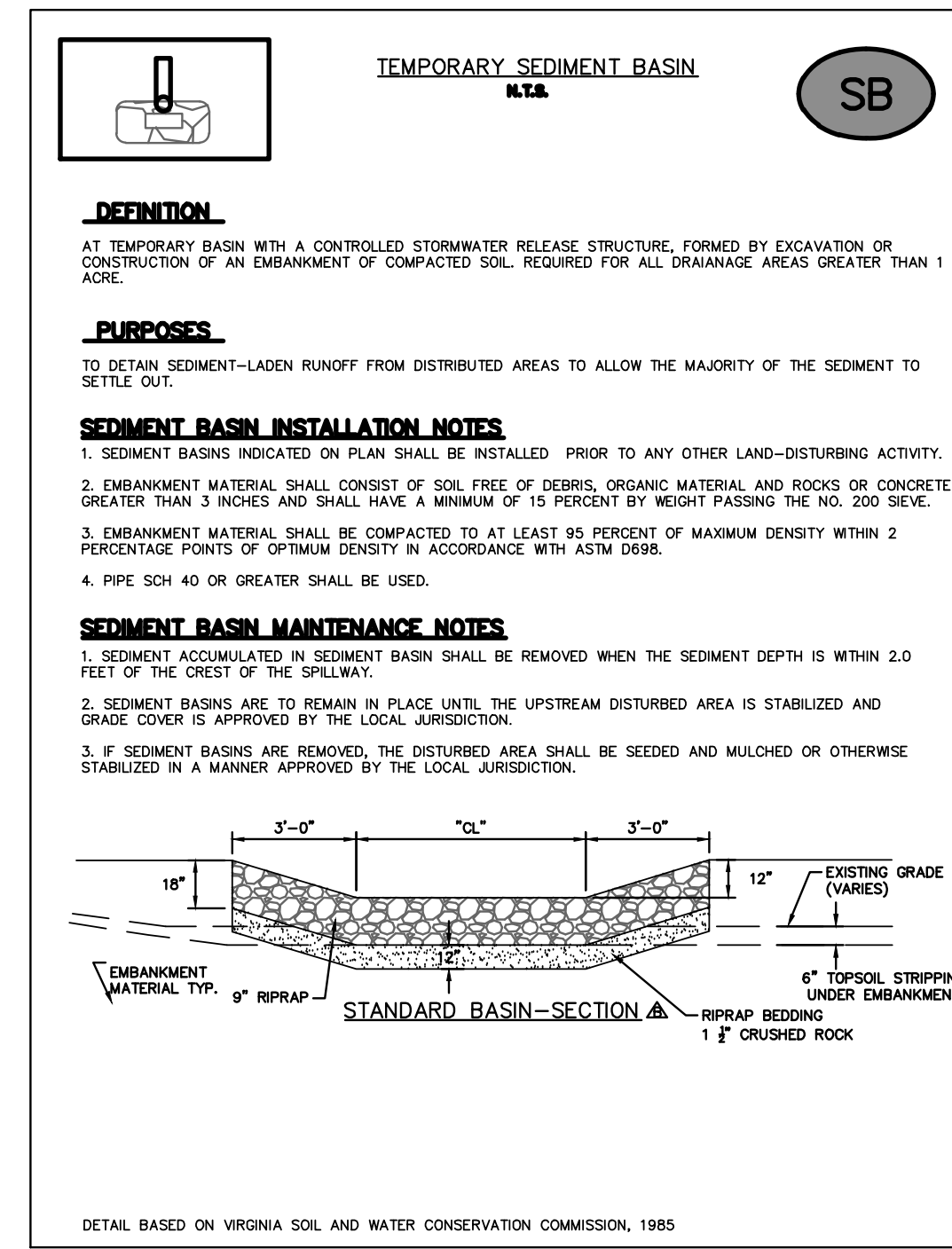
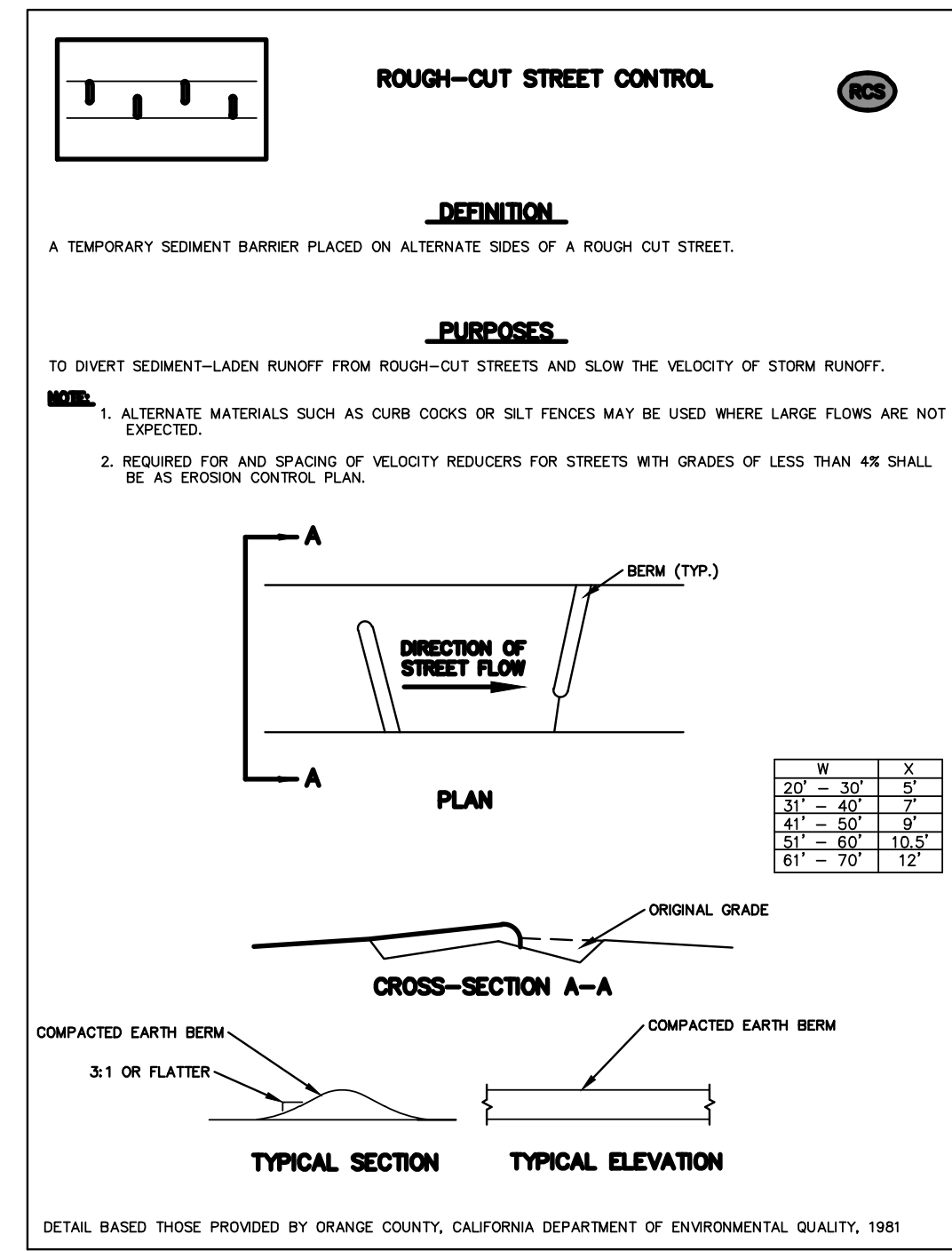
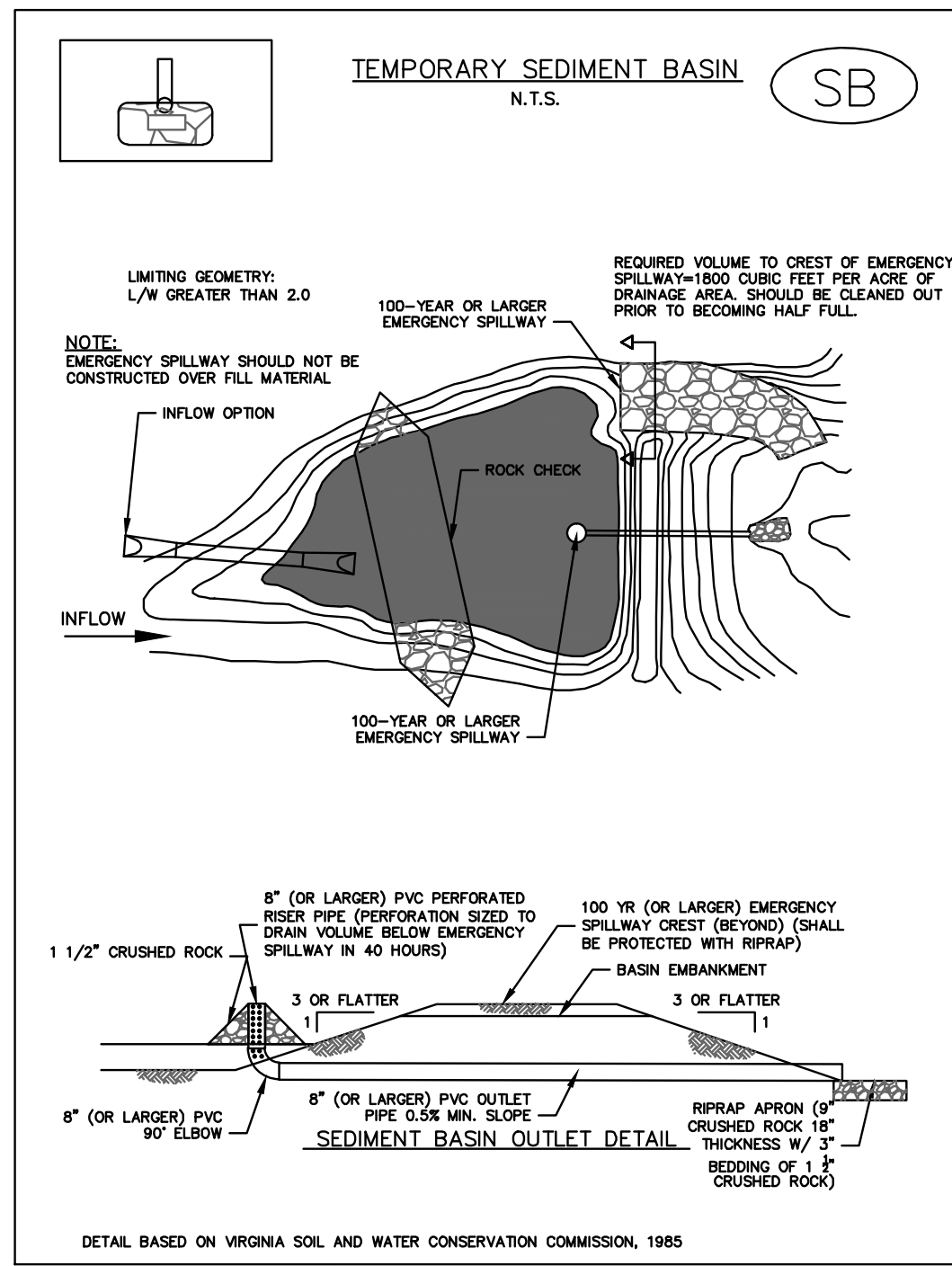
**DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
TOWN OF DILLON, COLORADO
EROSION CONTROL AND
CONSTRUCTION MANAGEMENT PLAN**

Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 4
Scale 1"=20'	



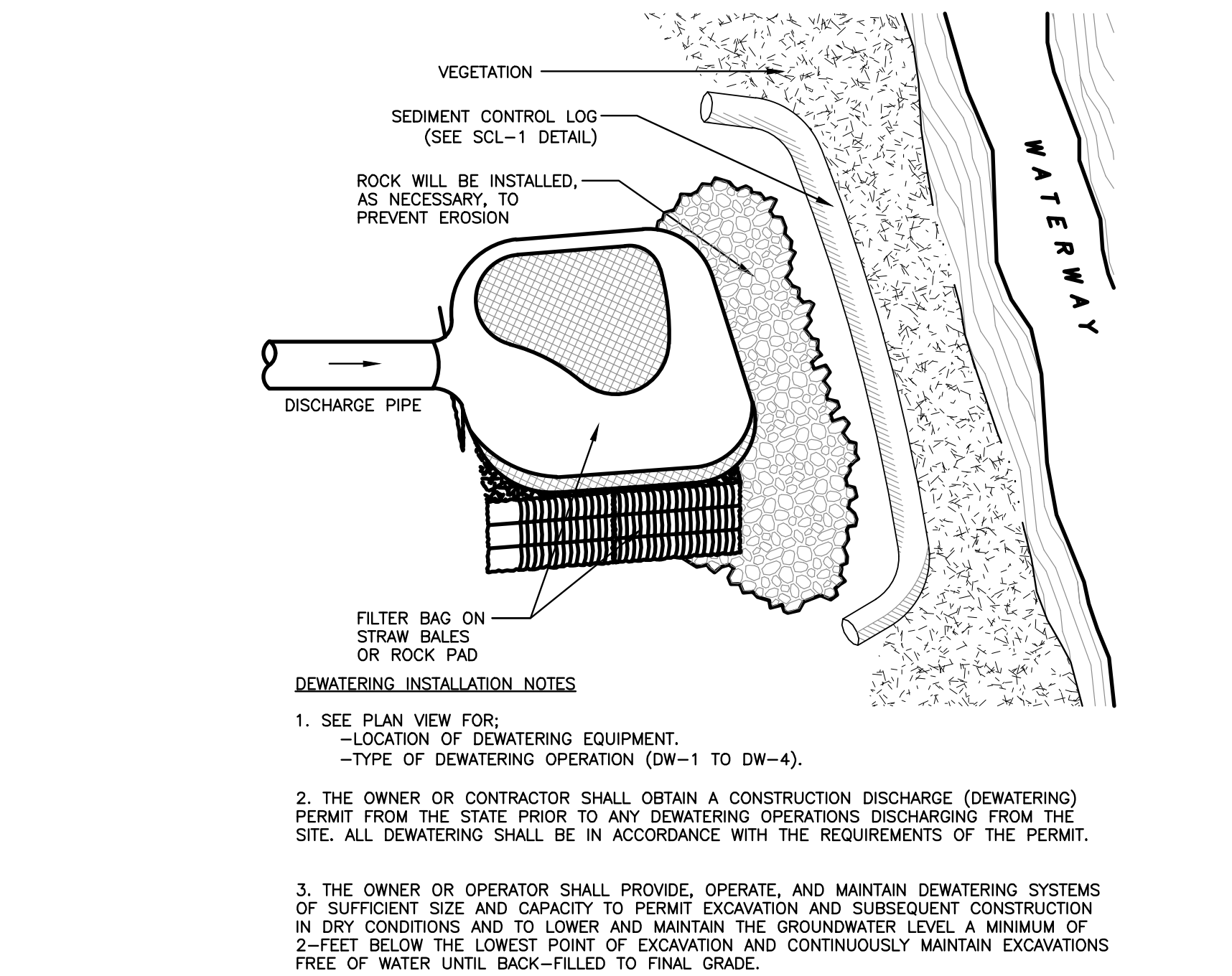
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ORIGINAL GRAPHIC SCALE



NOTES

- ADDITIONAL PRACTICES TO BE EMPLOYED AS NECESSARY TO MEET WATER QUALITY OBJECTIVES AND SUIT THE CURRENT WEATHER, SITE CONDITIONS, AND UNFORESEEN NEEDS.
- CONTRACTOR RESPONSIBLE FOR ENSURING ALL PRACTICABLE SEDIMENT AND EROSION CONTROL SOLUTIONS ARE EMPLOYED TO MEET WATER QUALITY OBJECTIVES.



DEWATERING INSTALLATION NOTES

- DEWATERING OPERATIONS SHALL USE ONE OR MORE OF THE DEWATERING SUMPS SHOWN ABOVE, WELL POINTS, OR OTHER MEANS APPROVED BY THE LOCAL JURISDICTION TO REDUCE THE PUMPING OF SEDIMENT, AND SHALL PROVIDE A TEMPORARY SEDIMENT BASIN OR FILTRATION BMP TO REDUCE SEDIMENT TO ALLOWABLE LEVELS PRIOR TO RELEASE OFF SITE OR TO A RECEIVING WATER. A SEDIMENT BASIN MAY BE USED IN LIEU OF SUMP DISCHARGE SETTLING BASIN SHOWN ABOVE IF A 4-FOOT-SQUARE RIPRAP PAD IS PLACED AT THE DISCHARGE POINT AND THE DISCHARGE END OF THE LINE IS STAKED IN PLACE TO PREVENT MOVEMENT OF THE LINE.
- DEWATERING OPERATIONS MAY REQUIRE A LOCAL PERMIT IN ADDITION TO STATE REQUIREMENTS.

DEWATERING MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- DEWATERING BMPs ARE REQUIRED IN ADDITION TO ALL OTHER PERMIT REQUIREMENTS.
- TEMPORARY SETTLING BASINS SHALL BE REMOVED WHEN NO LONGER NEEDED FOR DEWATERING OPERATIONS. ANY DISTURBED AREA SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

DW-4. DEWATERING FILTER BAG

LEGEND OF EROSION CONTROL PRACTICES

Symbol	Practice Name	Phase II Measures
CS	CURB SOCK INLET PROTECTION	*
IP	INLET PROTECTION	*
OP	OUTLET PROTECTION	
RCS	ROUGH CUT STREET CONTROL	
ECL	EXCELSIOR CHECK LOG	
PS	PERMANENT SEEDING	
SR	SURFACE ROUGHENING	
MU	MULCHING	
CD	CHECK DAM	
DD	TEMPORARY DIVERSION DIKE	
DV	TEMPORARY CHANNEL DIVERSION	
CF	CONSTRUCTION FENCE	
SF	SILT FENCE	
VTC	VEHICLE TRACKING CONTROL	
WR	VEHICLE TRACKING CONTROL WITH WASH RACK	
STB	STRAW BALE BARRIER	
ECB	EROSION CONTROL BLANKET	
PF	PAVED FLUME	
TSD	TEMPORARY SLOPE DRAIN	
CRS	CONSTRUCTION ROAD STABILIZATION	
SC	TEMPORARY STREAM CROSSING	
SB	SEDIMENT BASIN	
ST	SEDIMENT TRAP	

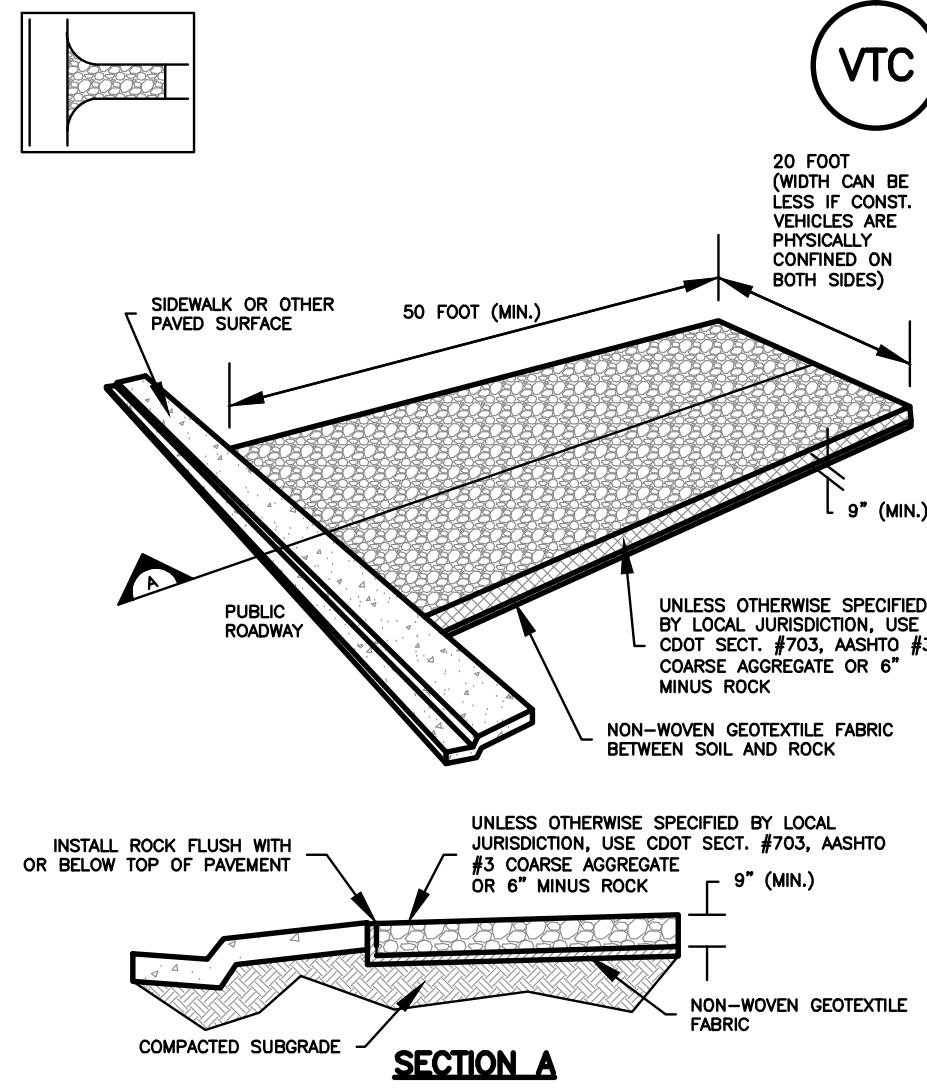
EROSION CONTROL NARRATIVE - PHASE 1 AND PHASE 2

- The intent of the Phase 1 erosion and sediment control plan is to fulfill water quality objectives during the roadway rough grading phase of the project. During this phase, it is anticipated that the maximum amount of disturbed area will be created. In order of occurrence, the following measures should be implemented.
- A silt fence should be installed as shown on the plan.
- Diversion dikes should be constructed as shown on the plan to redirect runoff water to stabilized outflow points. These diversion dikes shall be kept in the second phase, as the construction dictates, as part of finished grading for the lots. The dikes break up the slope length and reduce the potential for rill and gully erosion within the property boundary. At the downstream end of each of the diversion dikes, a silt trap should be installed and relocated as construction dictates, to capture sediments eroded from the partitioned areas.
- Immediately after road grading is completed, temporary seeding with mulch cover is recommended for all the exposed slopes to stabilize the disturbed areas. Permanent seeding with a temporary mulch cover should be applied to the large areas as designated.
- Once the Phase 1 rough grading and earth moving is completed, Phase 2 will commence. Phase 2 includes fine grading, home construction, utility construction and street construction. Erosion and control practices outlined include inlet protection and sandbags upstream of inlets, (curb socks).
- It is extremely important that each of the measures be maintained on a regular basis and inspected by a qualified erosion-control specialist to achieve the required water quality control.
- Should the utility and street construction not begin within 90 days of completion of the rough grading work, the contractor shall install Rough-Cut Street control in the street areas. It is suggested that during the 90 day period and during construction, division dikes should be used in lieu of the Rough-Cut Street control in the same general location and shape as the (RCS) shown on the plans.

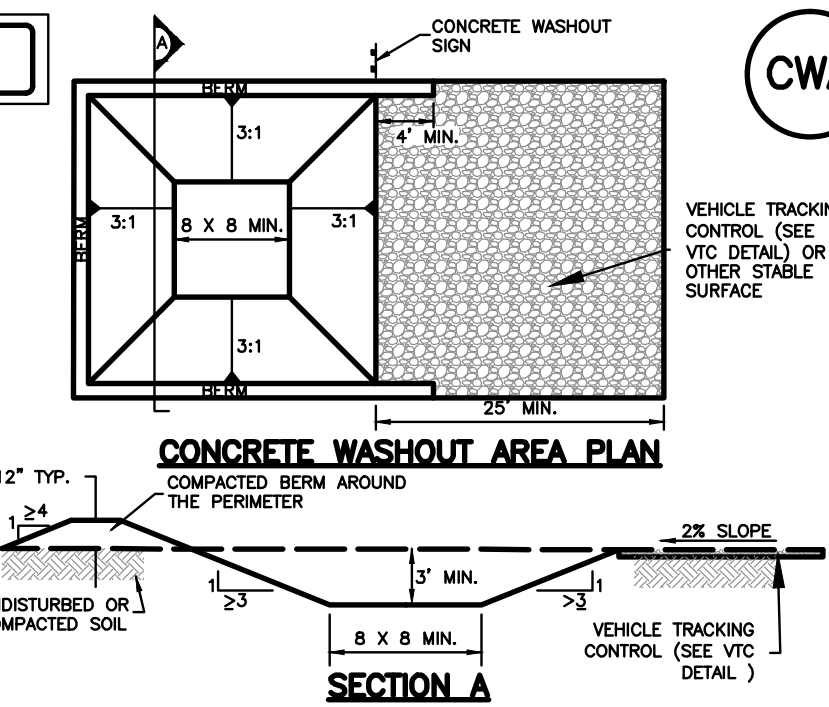
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Project	DILLON RIDGE VISTAS	
	Date	4/7/17
Sheet	5	
	Scale	NTS

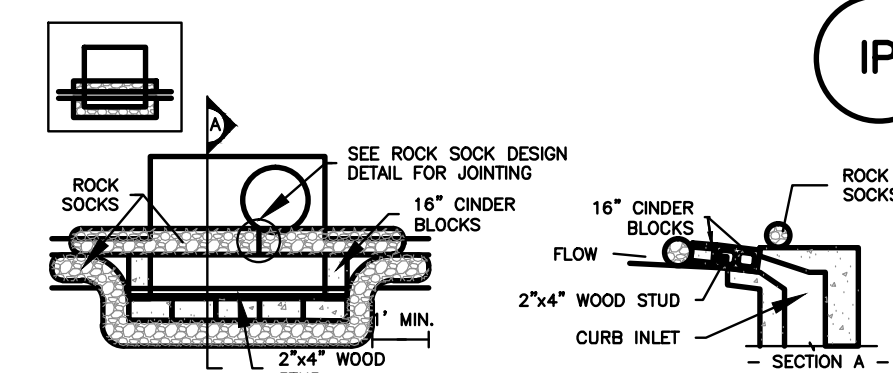
EROSION CONTROL DETAILS



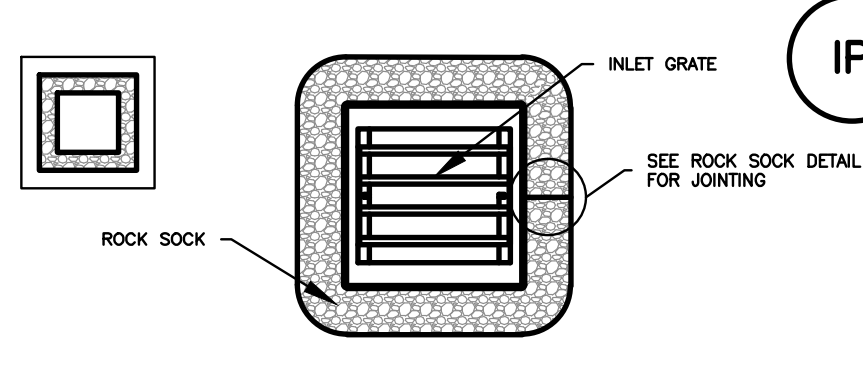
VTC-1. AGGREGATE VEHICLE TRACKING CONTROL



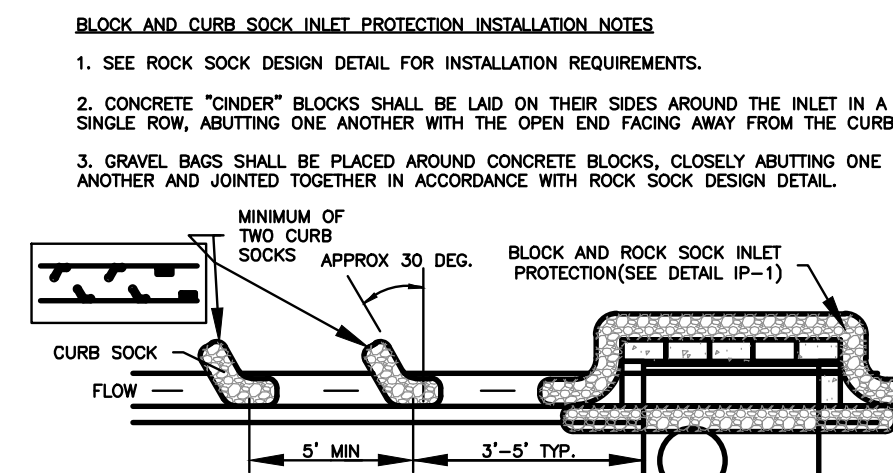
CWA-1. CONCRETE WASHOUT AREA



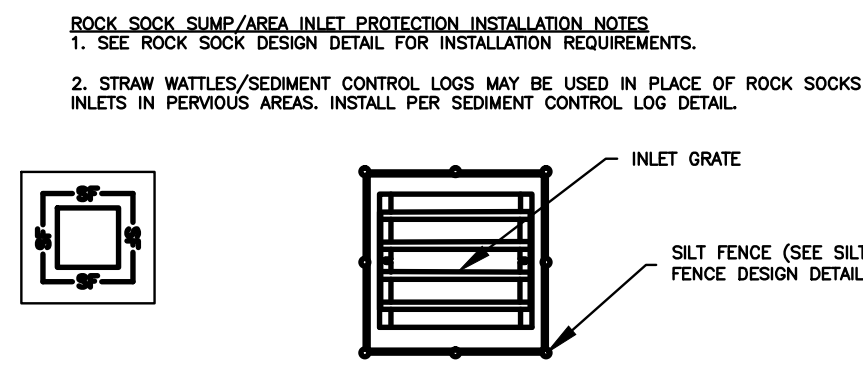
IP-1. BLOCK AND ROCK SOCK SUMP OR ON GRADE INLET PROTECTION



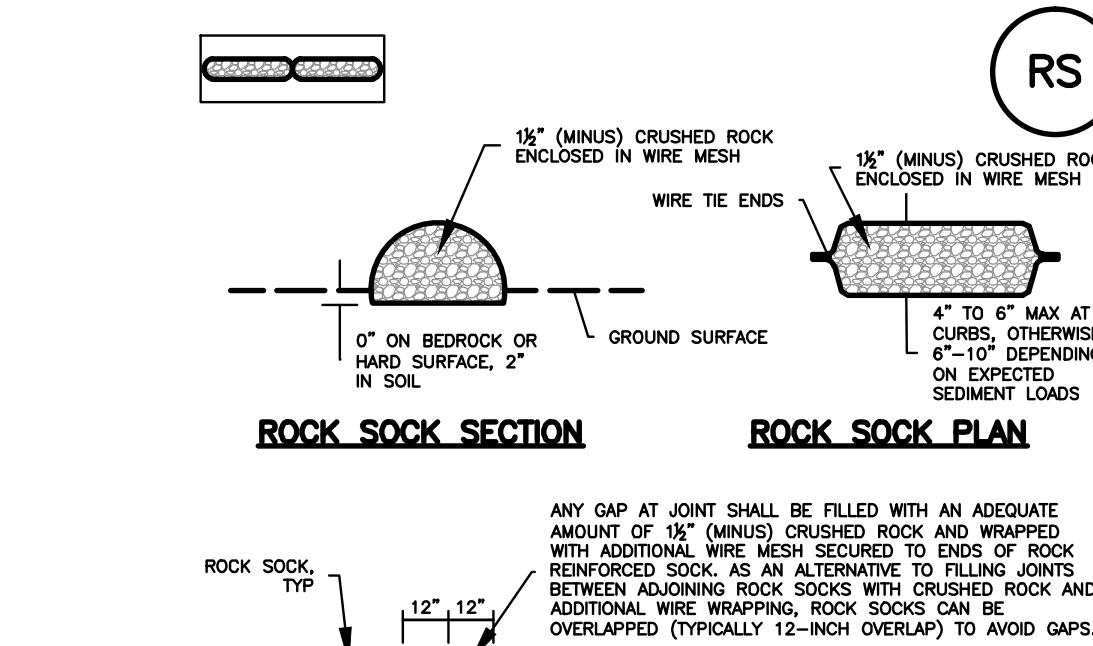
IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION



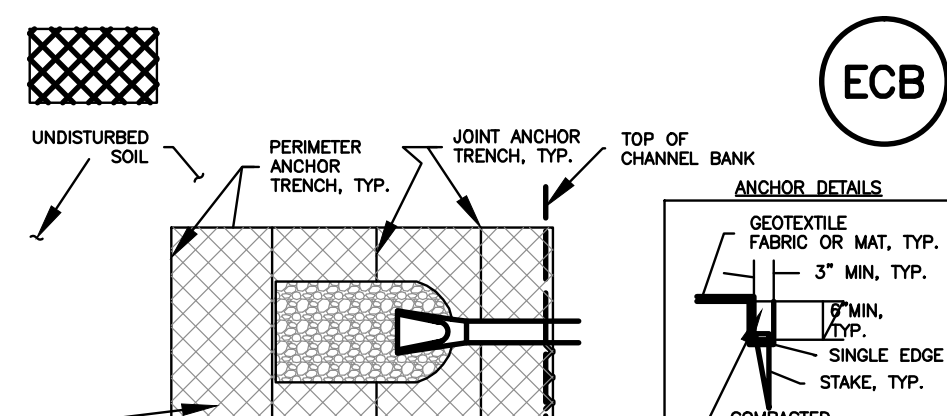
IP-2. CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION



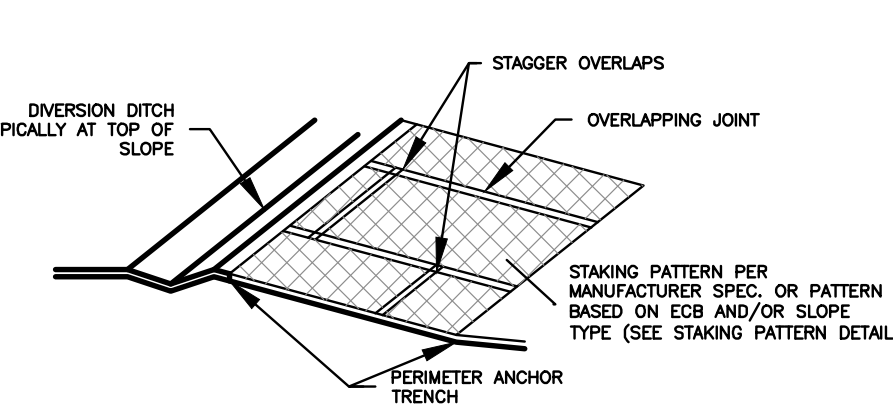
IP-4. SILT FENCE FOR SUMP INLET PROTECTION



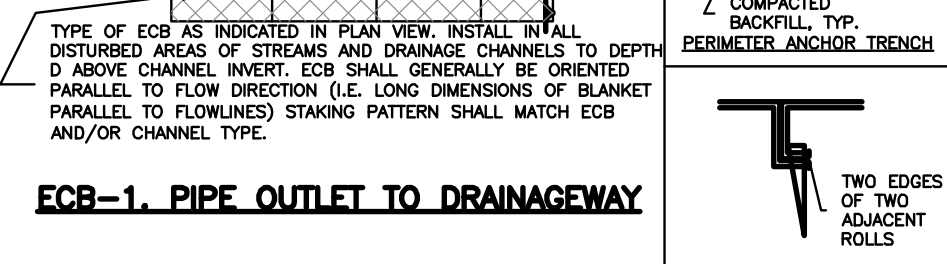
RS-1. ROCK SOCK PERIMETER CONTROL



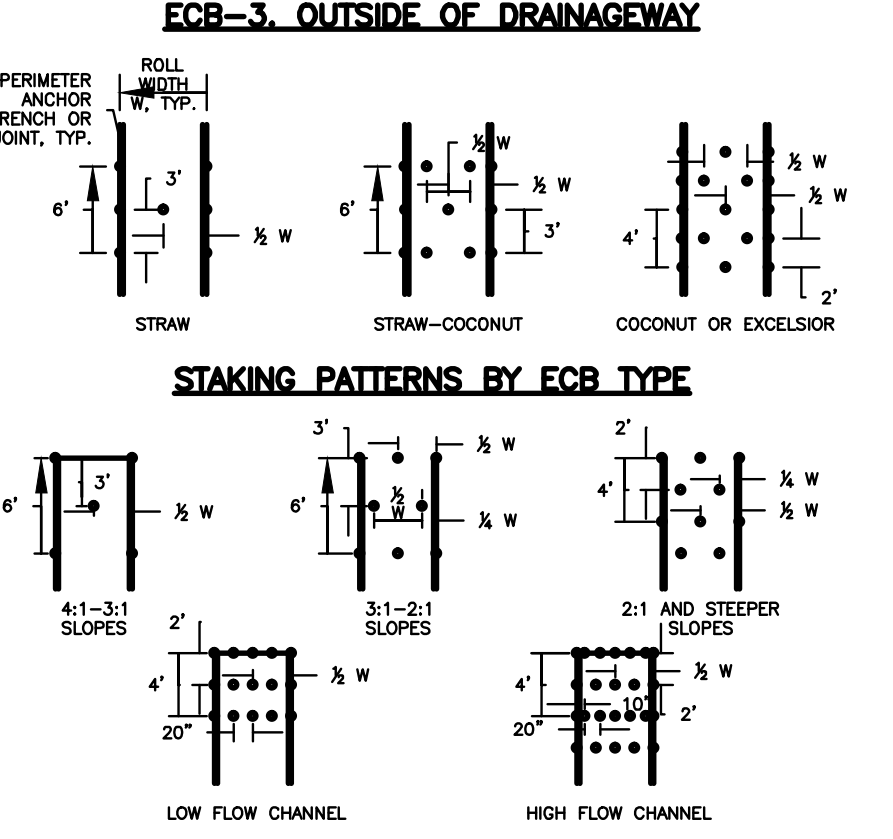
ECB-1. PIPE OUTLET TO DRAINAGE WAY



ECB-3. OUTSIDE OF DRAINAGE WAY



ECB-2. SMALL DITCH OR DRAINAGE WAY



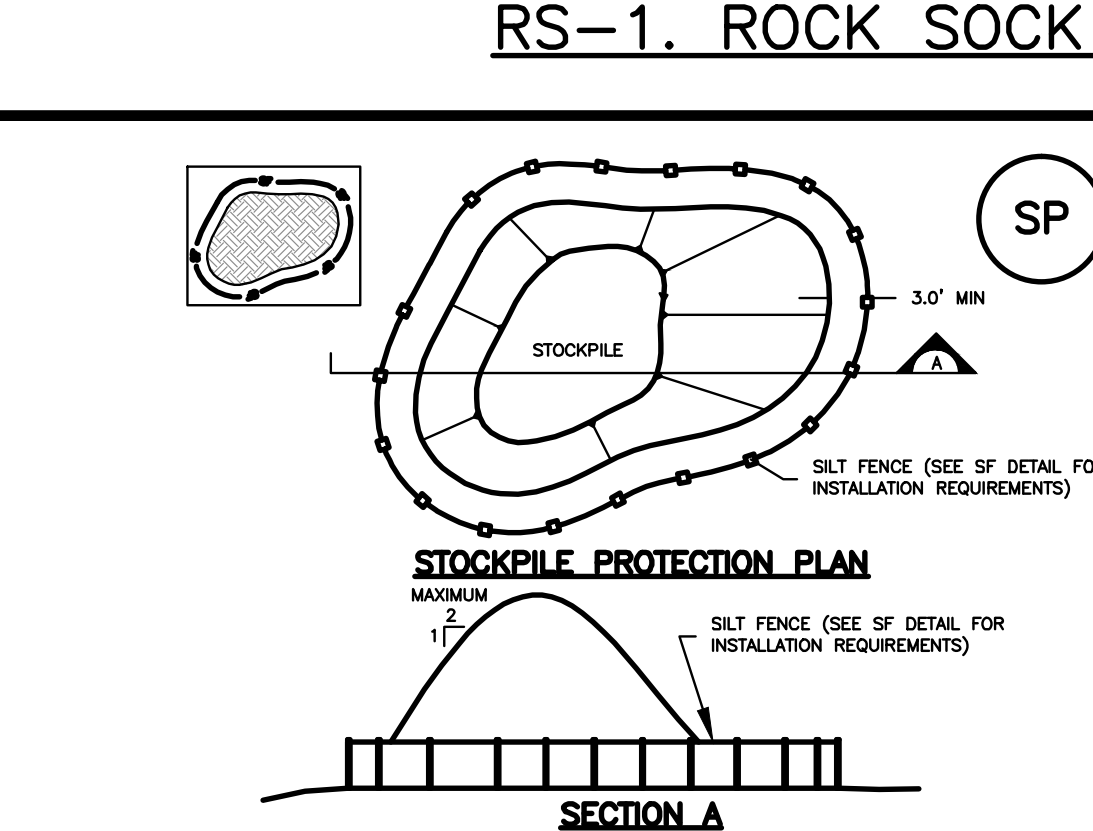
STAKING PATTERNS BY SLOPE OR CHANNEL TYPE

ROCK SOCK JOINTING

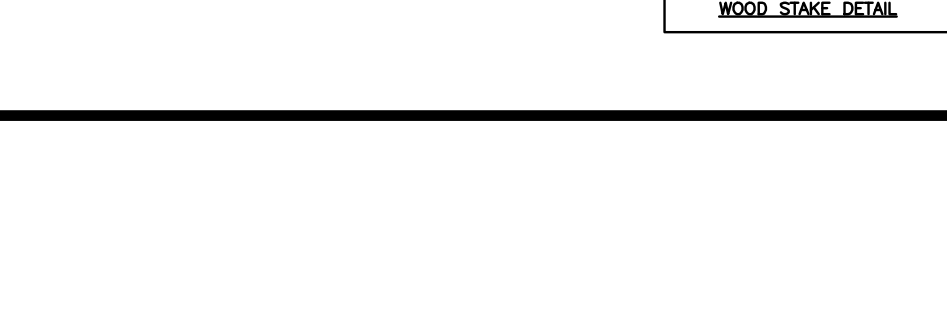
SIEVE SIZE	GRASS PERCENT PASSING SQUARE MESH SIEVES	NO. 4
2"	100	
1 1/2"	90 - 100	
1"	20 - 55	
3/4"	0 - 15	
3/8"	0 - 5	

ROCK SOCK INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION(S) OF ROCK SOCKS.
- CRUSHED ROCK SHALL BE 1 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1 1/2" MINUS).
- WIRE MESH SHALL BE FABRICATED OF 10 GAUGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48"
- WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
- SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.



SP-1. STOCKPILE PROTECTION



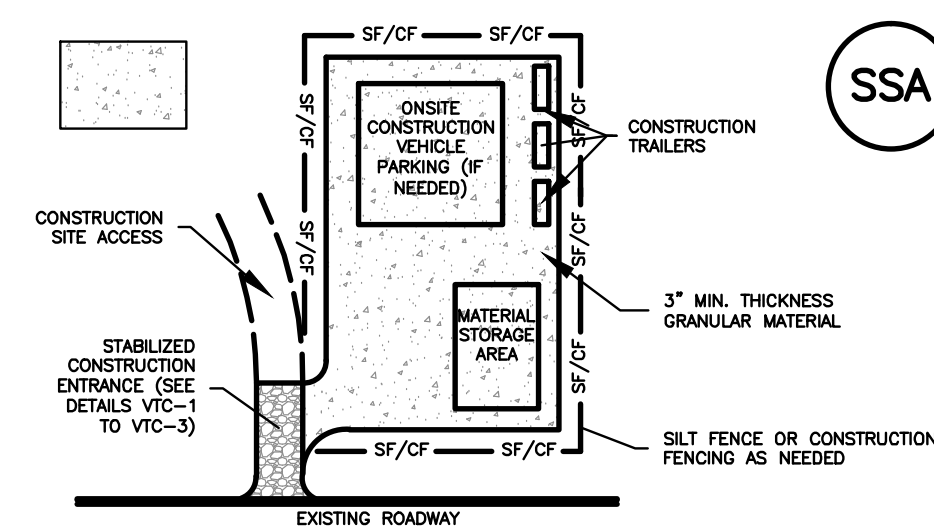
STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S). -TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
- CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
- A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
- STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED CONSTRUCTION ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
- SEDIMENT TRACKED ON PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.
- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND MALING/LOADING OPERATIONS.
- THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEED, AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

NOTE: MANY MUNICIPALITIES PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.

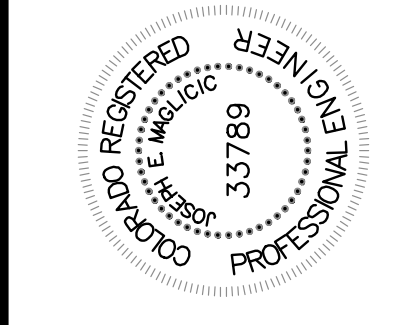
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Project	Date	Scale	Sheet
DILLON RIDGE VISTAS	4/7/17	NTS	6

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Revision/Issue	Date	Description
1	4/7/17	FINAL SITE PLAN & PLAT SUBMITTAL



1	FINAL SITE PLAN/PLAT	4/7/17	TOS FINAL SITE PLAN & PLAT SUBMITTAL	Description
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DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
EROSION CONTROL DETAILS
TOWN OF DILLON, COLORADO

Project	DILLON RIDGE VISTAS
Date	4/7/17
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Sheet	7

CD-1. CHECK DAM

SBB-1. STRAW BALE

OP-1. TEMPORARY OUTLET PROTECTION

PIPE DIAMETER, D (INCHES)	DISCHARGE, Q (CFS)	APPROX. LENGTH, L ₀ (FT)	RRIPRAP D ₅₀ DIAMETER (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
18	10	10	6
	20	16	9
	30	23	12
	40	26	16
24	30	16	9
	40	26	12
	60	30	16

CB-1. COMPOST BLANKET AND COMPOST FILTER BERM

PARAMETERS	CHARACTERISTIC
MINIMUM STABILITY INDICATOR	STABLE TO VERY STABLE
SOLUBLE SALTS	MAXIMUM 5 mg/mg/cm
PH	6.0 - 8.0
AG INDEX	> 10
MATURITY INDICATOR EXPRESSED AS PERCENTAGE OF GERMINATION/VIGOR	80+/80+
MATURITY INDICATOR EXPRESSED AS AMMONIA N/ NITRATE N RATIO	< 4
MATURITY INDEX AS CARBON TO NITROGEN RATIO	20:1
TESTED FOR CLOPYRALID	YES/NEGATIVE RESULT
MOISTURE CONTENT	50-60%
ORGANIC MATTER CONTENT	25-45% OF DRY WEIGHT
PARTICLE SIZE DISTRIBUTION	3" (75mm) 100% PASSING
PRIMARY, SECONDARY NUTRIENTS; TRACE ELEMENTS	MUST BE REPORTED
TESTING AND TEST REPORT SUBMITTAL REQUIREMENTS	STA + CLOPYRALID
ORGANIC MATTER PER CUBIC YARD	MUST REPORT
CHEMICAL CONTAMINANTS	COMPLY WITH US EPA CLASS A STANDARD, 40 CFR 503.1 TABLES 1 & 3 LEVELS
MINIMUM MANUFACTURING/PRODUCTION REQUIREMENT	FULLY PERMITTED UNDER COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, HAZARDOUS MATERIALS AND WASTE MANAGEMENT DIVISION
RISK FACTOR RELATING TO PLANT GERMINATION AND HEALTH	LOW

SF-1. SILT FENCE

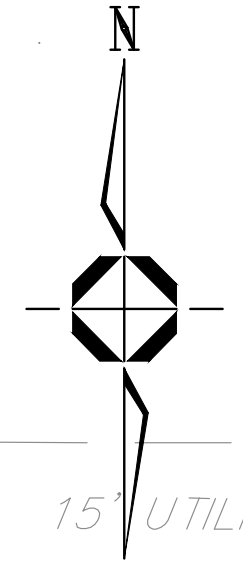
CIP-1. CULVERT INLET PROTECTION

SCL-1. SEDIMENT CONTROL LOG

MU-1. MULCHING INSTALLATION

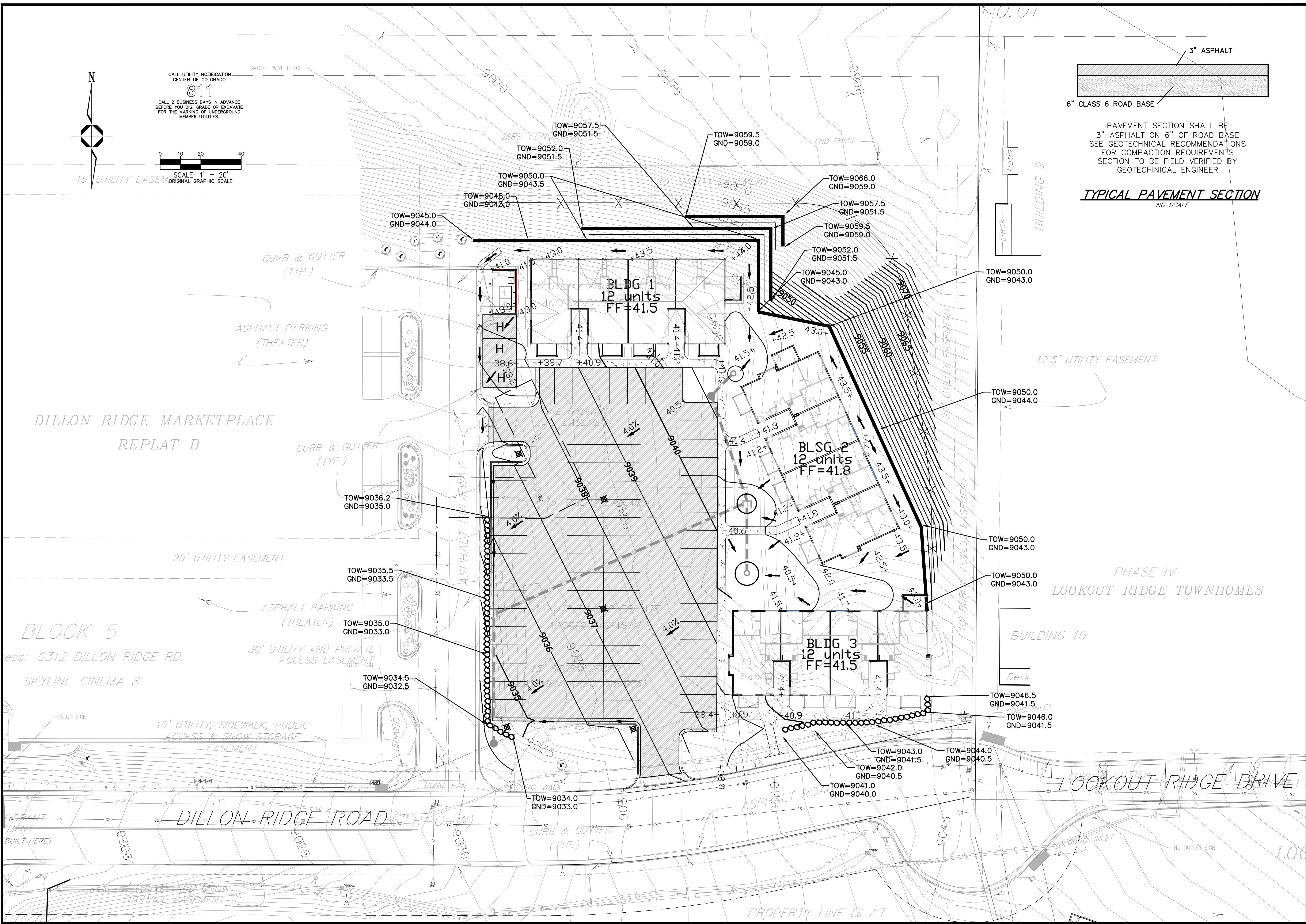
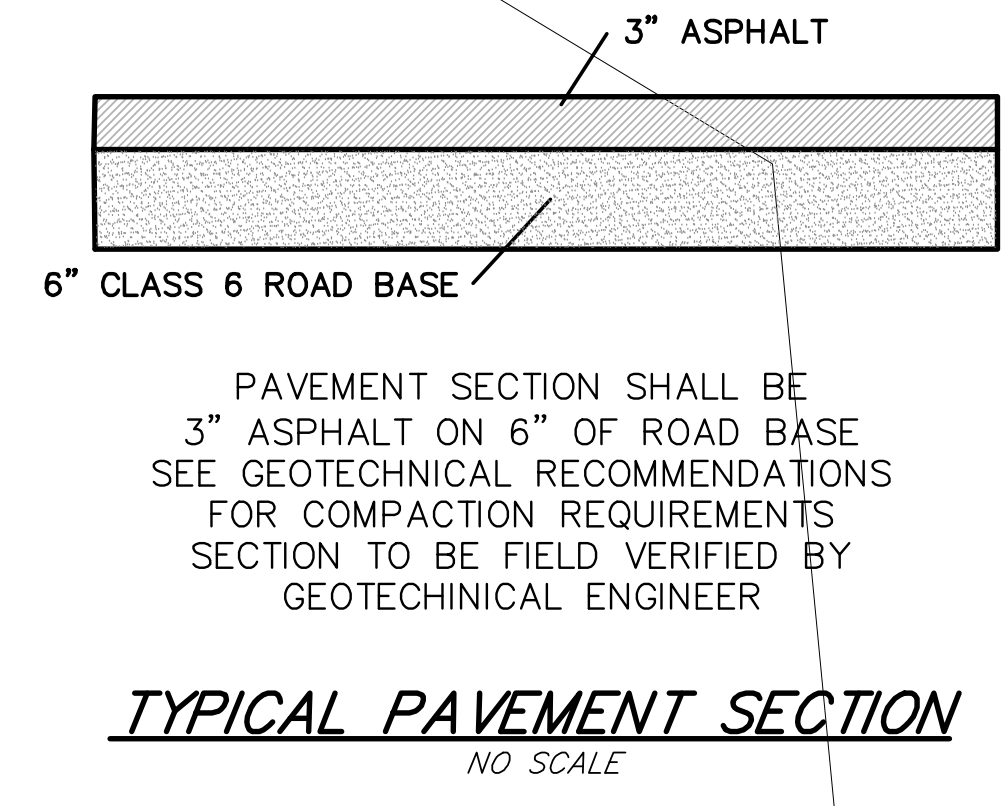
CF-1. PLASTIC MESH CONSTRUCTION FENCE

CIP-1. CULVERT INLET PROTECTION



CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

SCALE: 1" = 20'
ORIGINAL GRAPHIC SCALE

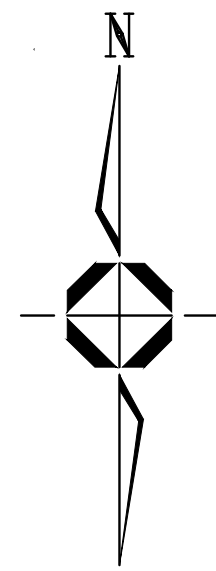


No.	Revision/Issue	Date	Revised per TOD	Comments
1		6/6/17		

TEN MILE ENGINEERING, INC.
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tenmileengineer@aol.com

DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
TOWN OF DILLON, COLORADO
OVERALL GRADING PLAN

Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 8
Scale 1"=20'	

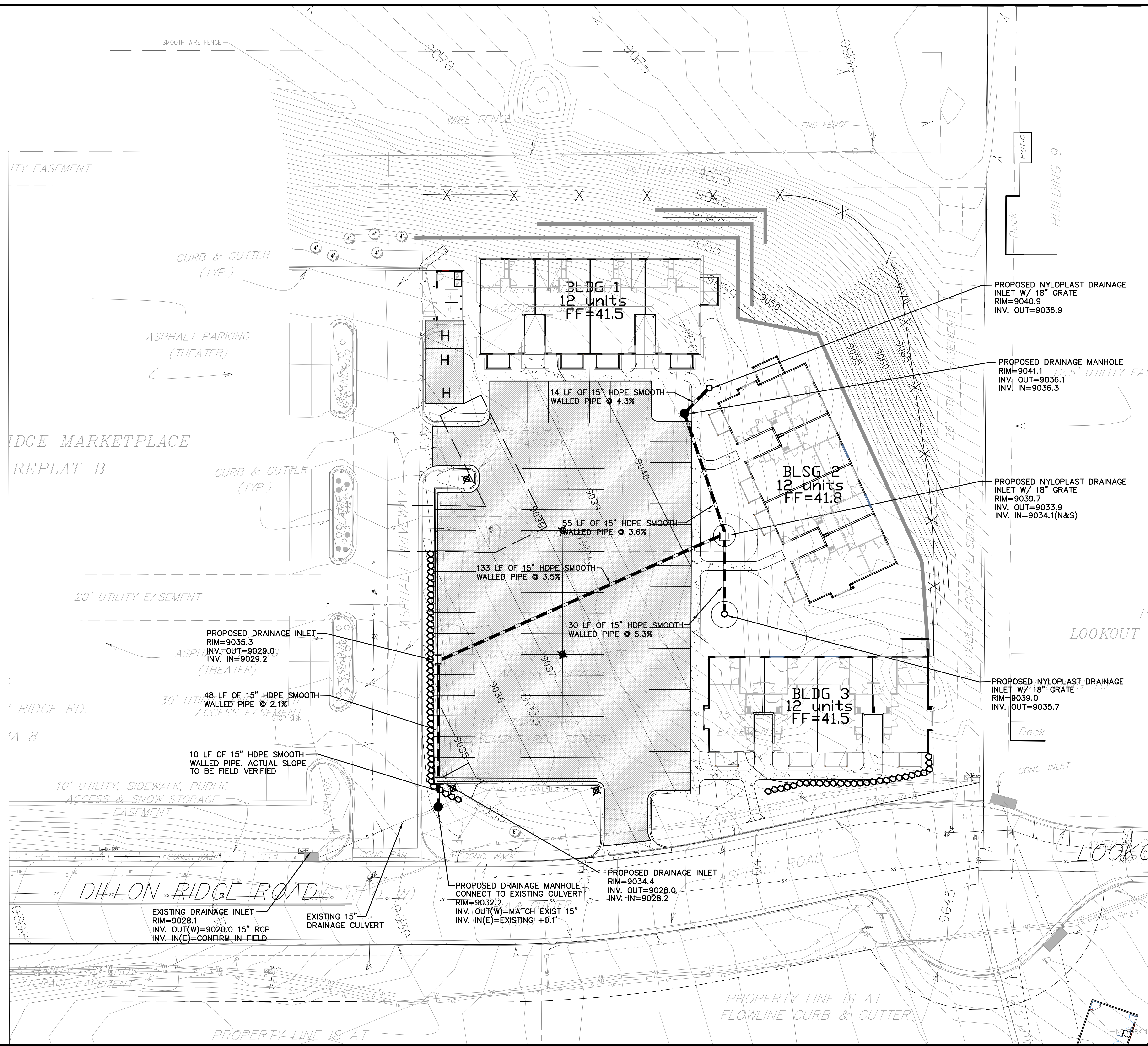


CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.

0 10 20 40
SCALE: 1" = 20'
ORIGINAL GRAPHIC SCALE

LEGEND

- SANITARY MANHOLE
- RIPRAP
- STORM INLET
- STORM FES
- STORM MANHOLE
- WATER FIRE HYDRANT
- WATER MANHOLE
- WATER VALVE
- WATER STOPBOX
- ELECTRIC BREAKER BOX
- ELECTRIC METER
- ELECTRIC PEDESTAL
- LIGHT POLE
- ELECTRIC VAULT
- TELEPHONE PEDESTAL
- FIBER OPTIC MKR
- FIBER OPTICS PEDESTAL
- GAS MKR POST
- IRRIGATION CONTROL BOX
- IRRIGATION VALVE
- VENT PIPE
- BUSH EVERGREEN
- BUSH DECIDUOUS
- TREE CONIFER
- TREE DECIDUOUS
- HANDICAP RAMP
- TRAFFIC CONTROL CABINET
- TRAFFIC CONTROL VAULT
- TRAFFIC SIGNAL
- DELINEATOR
- SIGN
- ELECTRIC UNDERGROUND
- TELEPHONE LINE UNDERGROUND
- FIBER OPTIC UNDERGROUND
- CABLE TV UNDERGROUND
- GAS LINE UNDERGROUND
- STORM REINFORCED CONCRETE PIPE
- WATER LINE UNDERGROUND
- SANITARY UNDERGROUND
- FENCE
- LANDSCAPE EDGE
- TREELINE
- CROWN ROAD
- EDGE ASPHALT
- EDGE CONCRETE
- TRAIL
- CHASE
- PAN FLOWLINE
- LINEMARKING WHITE STRIPE SOLID
- LINEMARKING YELLOW STRIPE SOLID
- GUARD RAIL
- SPEED BUMP
- STEPS
- STRUCTURE
- HANDRAIL
- WALL
- CONCRETE
- ASPHALT PAVEMENT

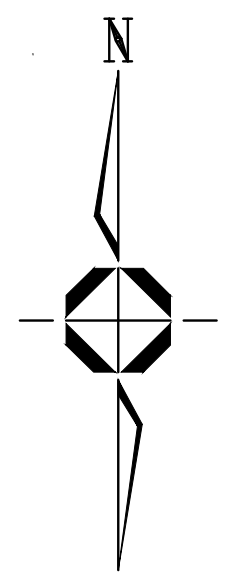


No.	Revision/Issue	Date	Revised per TOD Comments
1		6/6/17	

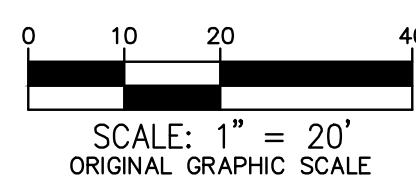
TEN MILE ENGINEERING, INC.
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DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
TOWN OF DILLON, COLORADO
DRAINAGE PLAN

Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 9
Scale 1"=20'	



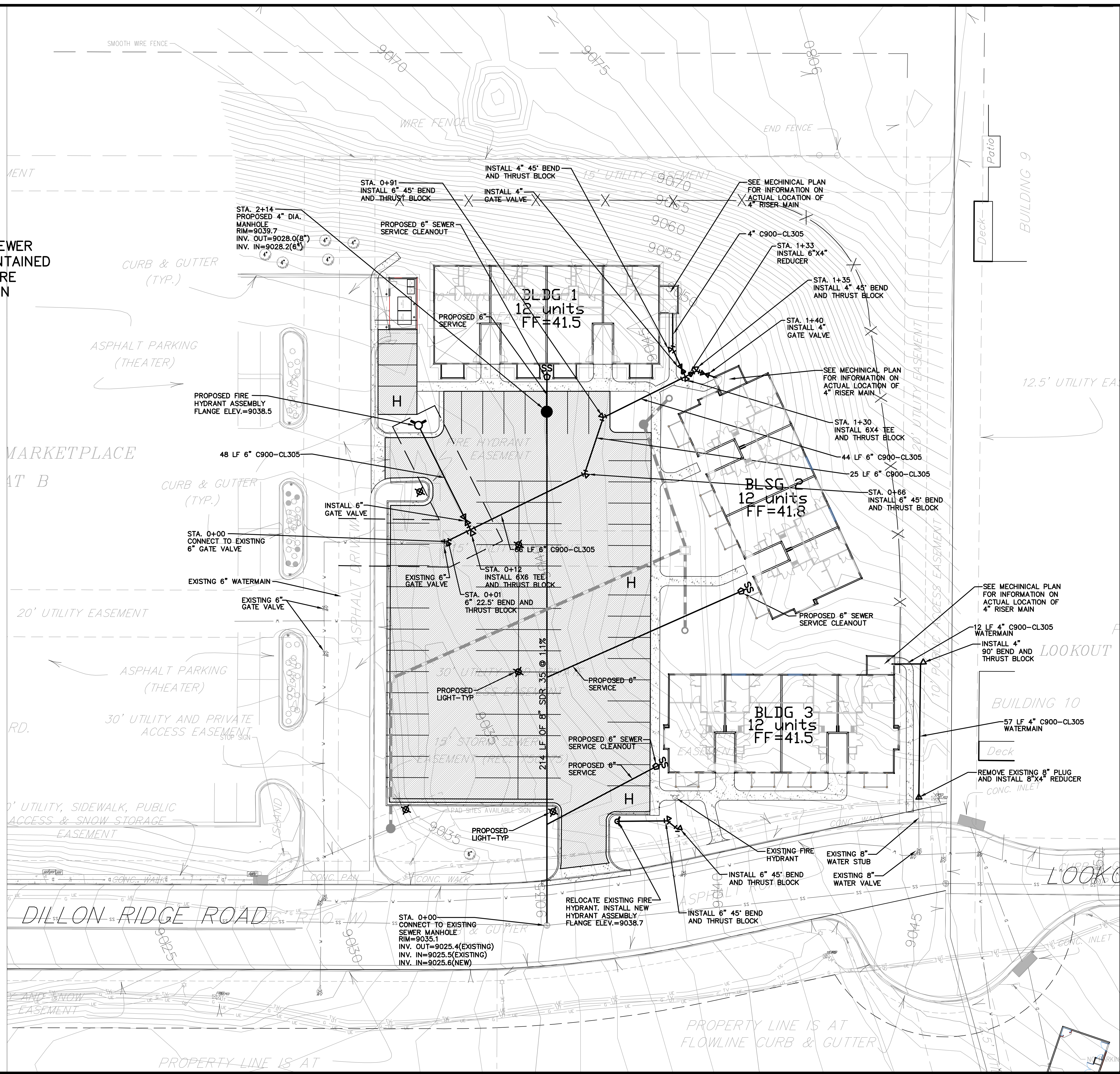
CALL UTILITY NOTIFICATION
CENTER OF COLORADO
811
CALL 2 BUSINESS DAYS IN ADVANCE
BEFORE YOU DIG, GRADE OR EXCAVATE
FOR THE MARKING OF UNDERGROUND
MEMBER UTILITIES.



NOTE: ALL WATER, SANITARY SEWER AND STORM SEWER SHOWN ON THE PLANS ARE PRIVATE AND TO BE MAINTAINED BY THE PROPERTY OWNER WITH EXCEPTION OF THE FIRE HYDRANT LATERAL AND FIRE HYDRANT LOCATED WITHIN THE 20' UTILITY EASEMENT

LEGEND

- SANITARY MANHOLE
- RIPRAP
- STORM INLET
- STORM FES
- STORM MANHOLE
- WATER FIRE HYDRANT
- WATER MANHOLE
- WATER VALVE
- WATER STOPBOX
- ELECTRIC BREAKER BOX
- ELECTRIC METER
- ELECTRIC MKR
- ELECTRIC PEDESTAL
- LIGHT POLE
- ELECTRIC VAULT
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- FIBER OPTICS PEDESTAL
- GAS MKR POST
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- VENT PIPE
- BUSH EVERGREEN
- BUSH DECIDUOUS
- TREE CONIFER
- TREE DECIDUOUS
- HANDICAP RAMP
- TRAFFIC CONTROL CABINET
- TRAFFIC CONTROL VAULT
- TRAFFIC SIGNAL
- DELINEATOR
- SIGN
- UE — ELECTRIC UNDERGROUND
- UT — TELEPHONE LINE UNDERGROUND
- FD — FIBER OPTIC UNDERGROUND
- TV — CABLE TV UNDERGROUND
- G — GAS LINE UNDERGROUND
- D — STORM REINFORCED CONCRETE PIPE
- W — WATER LINE UNDERGROUND
- SS — SANITARY UNDERGROUND
- F — FENCE
- L — LANDSCAPE EDGE
- T — TREELINE
- CR — CROWN ROAD
- EA — EDGE ASPHALT
- EC — EDGE CONCRETE
- TR — TRAIL
- CH — CHASE
- PF — PAN FLOWLINE
- LSW — LINEMARKING WHITE STRIPE SOLID
- LSY — LINEMARKING YELLOW STRIPE SOLID
- GR — GUARD RAIL
- SB — SPEED BUMP
- ST — STEPS
- STR — STRUCTURE
- HR — HANDRAIL
- W — WALL
- CONCRETE
- ASPHALT PAVEMENT

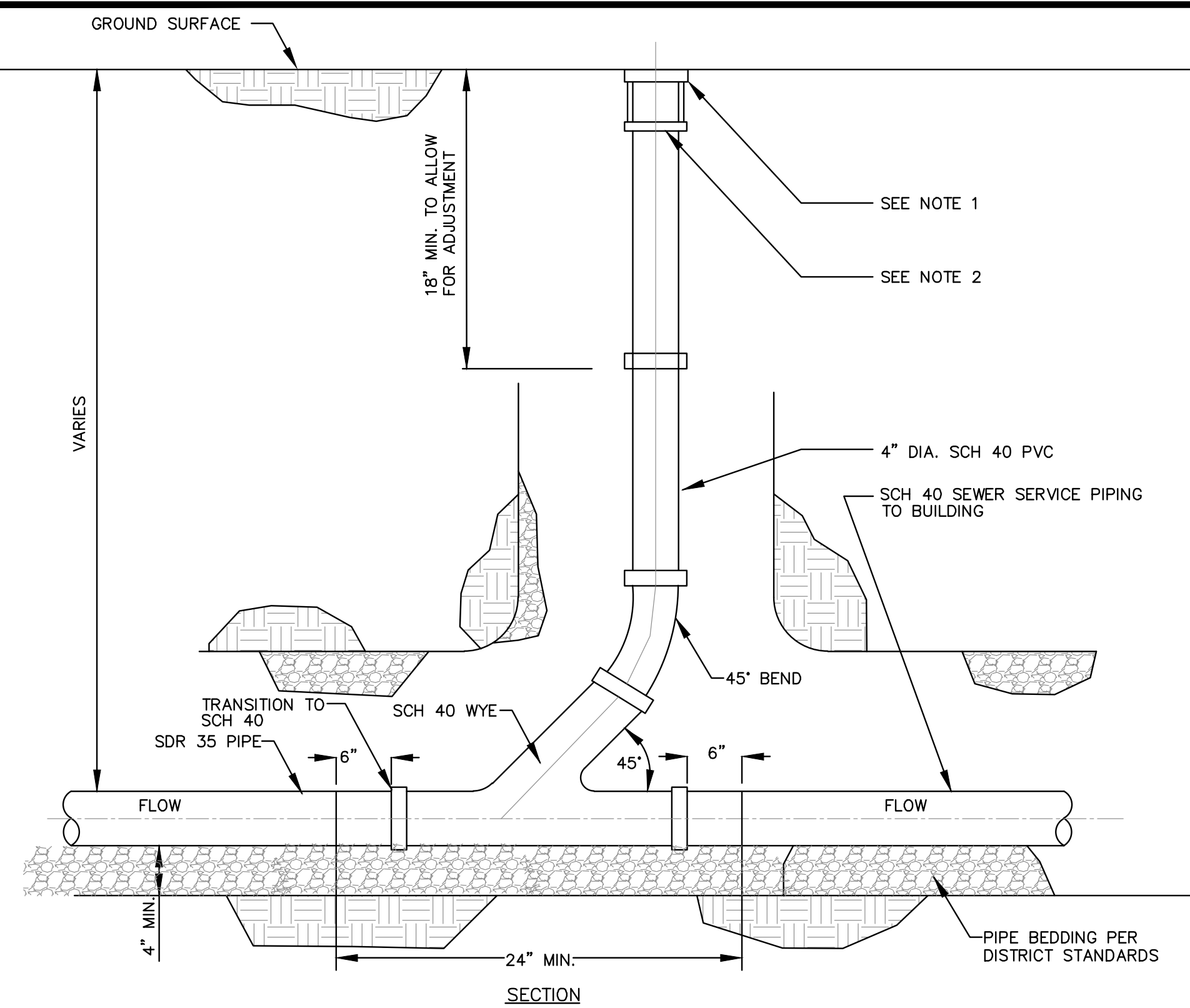


No.	Revision/Issue	Date	Description
2	Revised per fire Dept	7/9/17	Revised per fire dept comments
1	Revised per TOD	6/6/17	Revised per TOD comments

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**DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE**
TOWN OF DILLON, COLORADO
OVERALL UTILITY PLAN

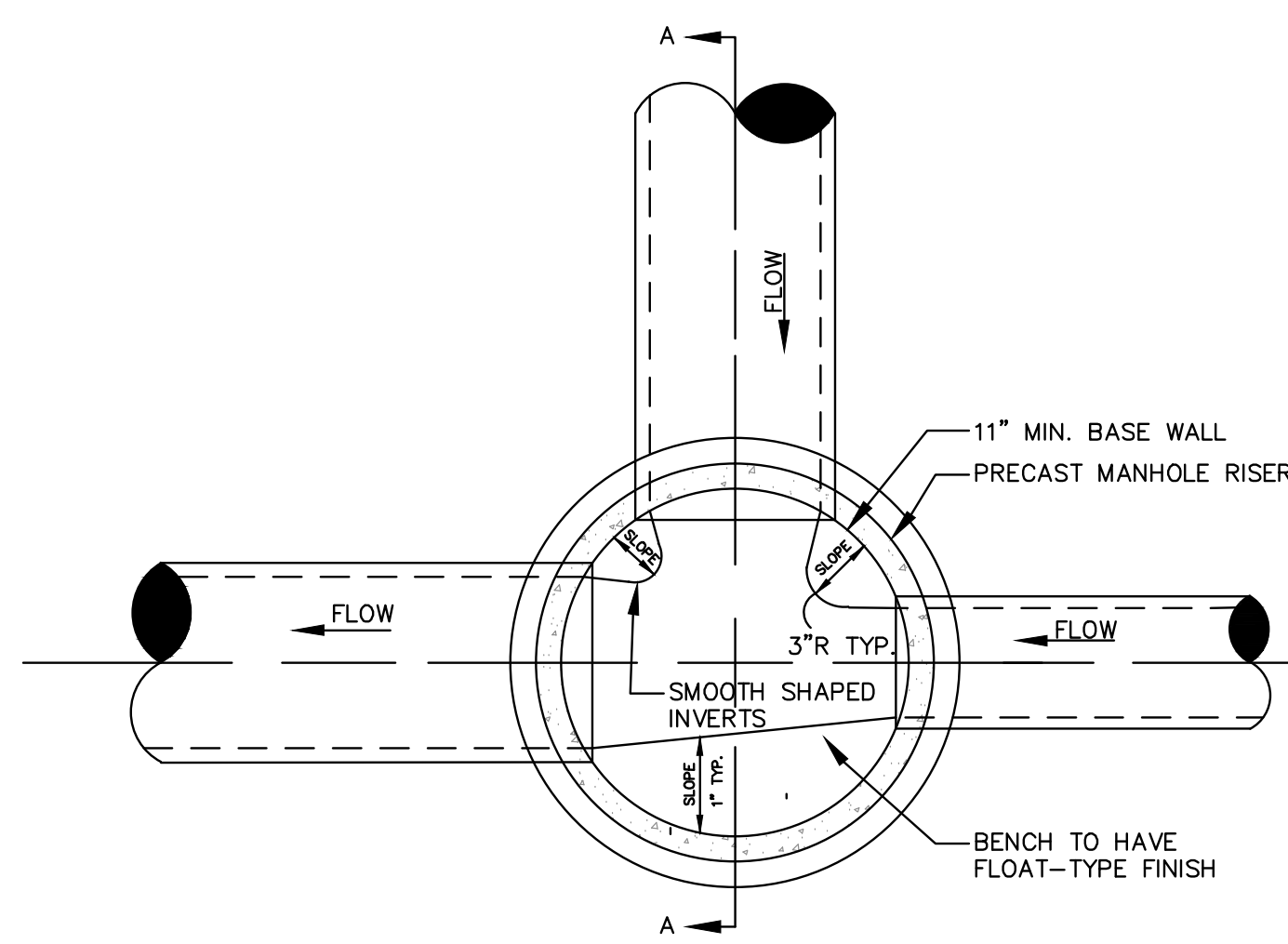
Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 10
Scale 1"=20'	



NOTES:

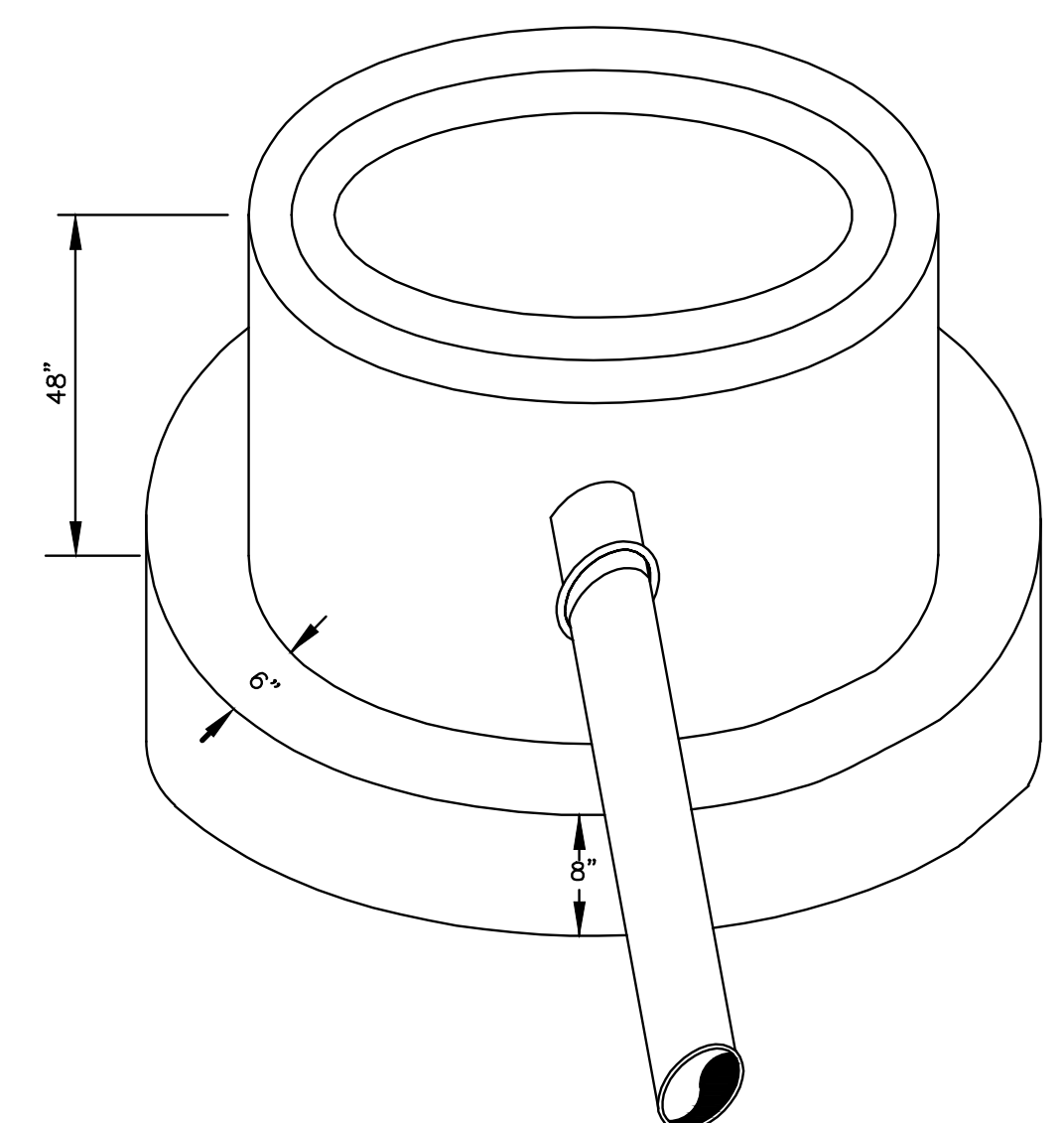
- 1 - TYLER SERIES 6855 SLIP TYPE VALVE BOX TOP SECTION WITH LOCKING LID MARKED "SEWER".
- 2 - 4" PVC SCH 40 BY THREADED ADAPTOR WITH THREADED PLUG.
- 3 - CLEAN OUT FITTINGS AND PIPING TO BE SCH 40.
- 4 - CLEAN OUT REQUIRED 5' OUTSIDE / AWAY FROM BUILDING.
- 5 - CLEAN OUT REQUIRED AT EVERY 100' SPACING IN SERVICE LINE BEFORE MAIN.
- 6 - CONTRACTOR TO COORDINATE WITH SEWER AND BUILDING DEPARTMENT FOR ADDITIONAL REQUIREMENTS AND CODES.
- 7 - ALL SCH 40 FITTINGS SHALL BE GLUED.

TYP. SEWER SERVICE CLEAN OUT

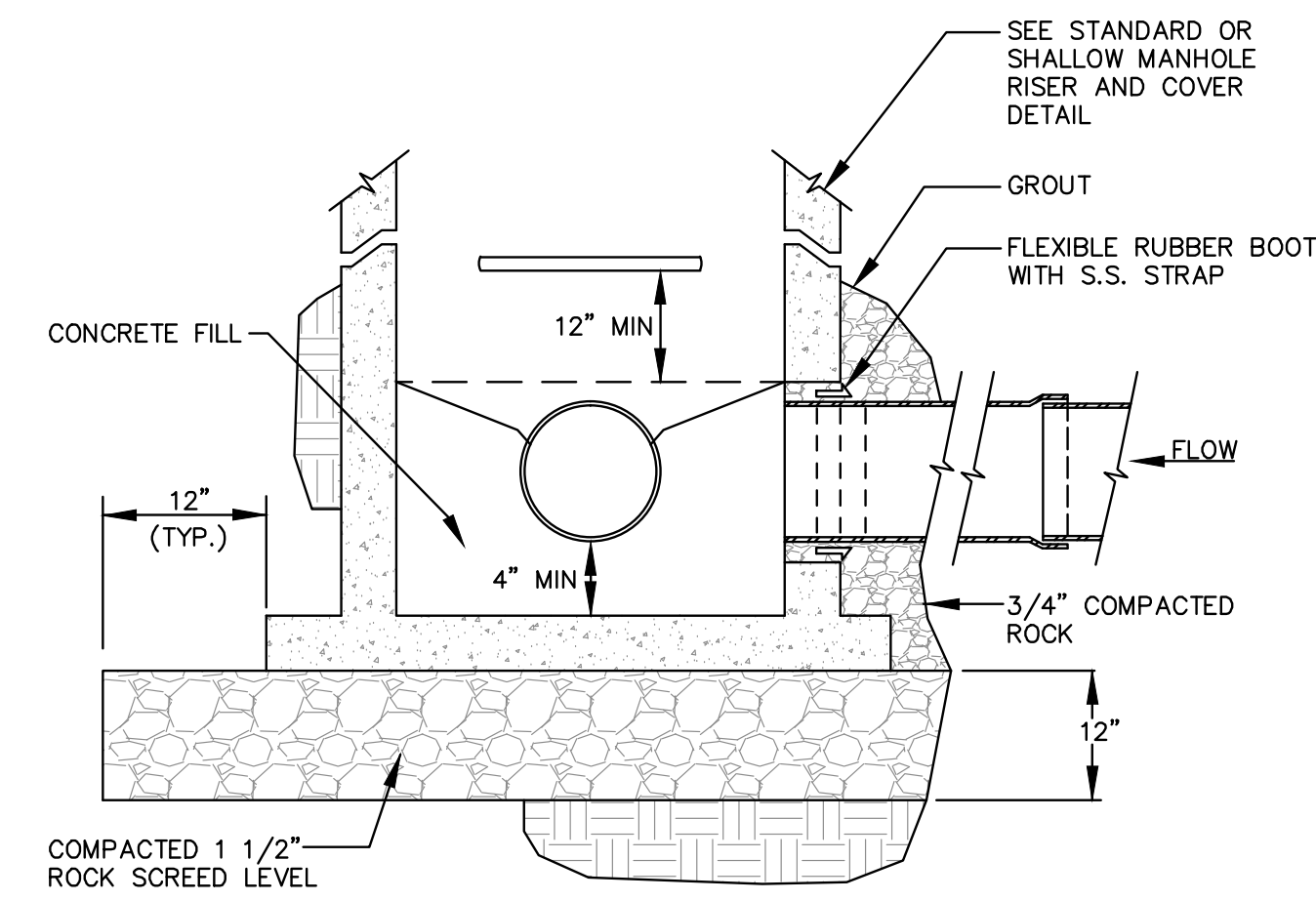


NOTES:

- 1 - CONCRETE BASE AND/OR INTERIOR CONCRETE FILL SHALL BE MINIMUM 4000 PSI CONCRETE.
- 2 - SEE CAST-IN-PLACE OR PRE CAST CONCRETE MANHOLE BASE FOR SECTIONS A-A AND B-B.



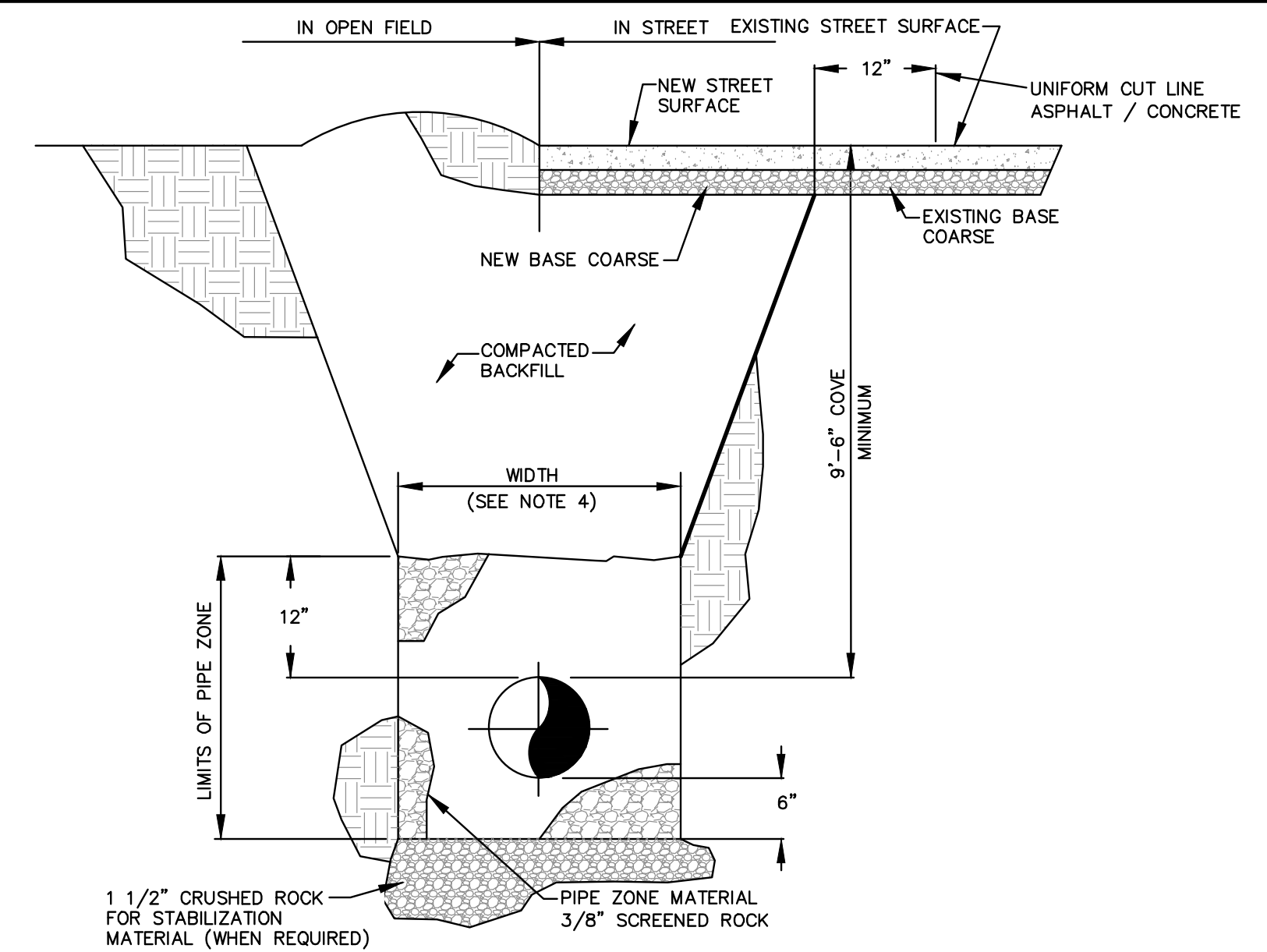
PRECAST CONCRETE MANHOLE BASE



NOTES:

- 1 - PRECAST CONCRETE SHALL MEET OR EXCEED STRENGTH OF 4000 PSI.
- 2 - APPLY LATEX BONDING AGENT TO PRECAST BASE SECTION BEFORE PLACING CONCRETE FILL BASE AND INVERTS.

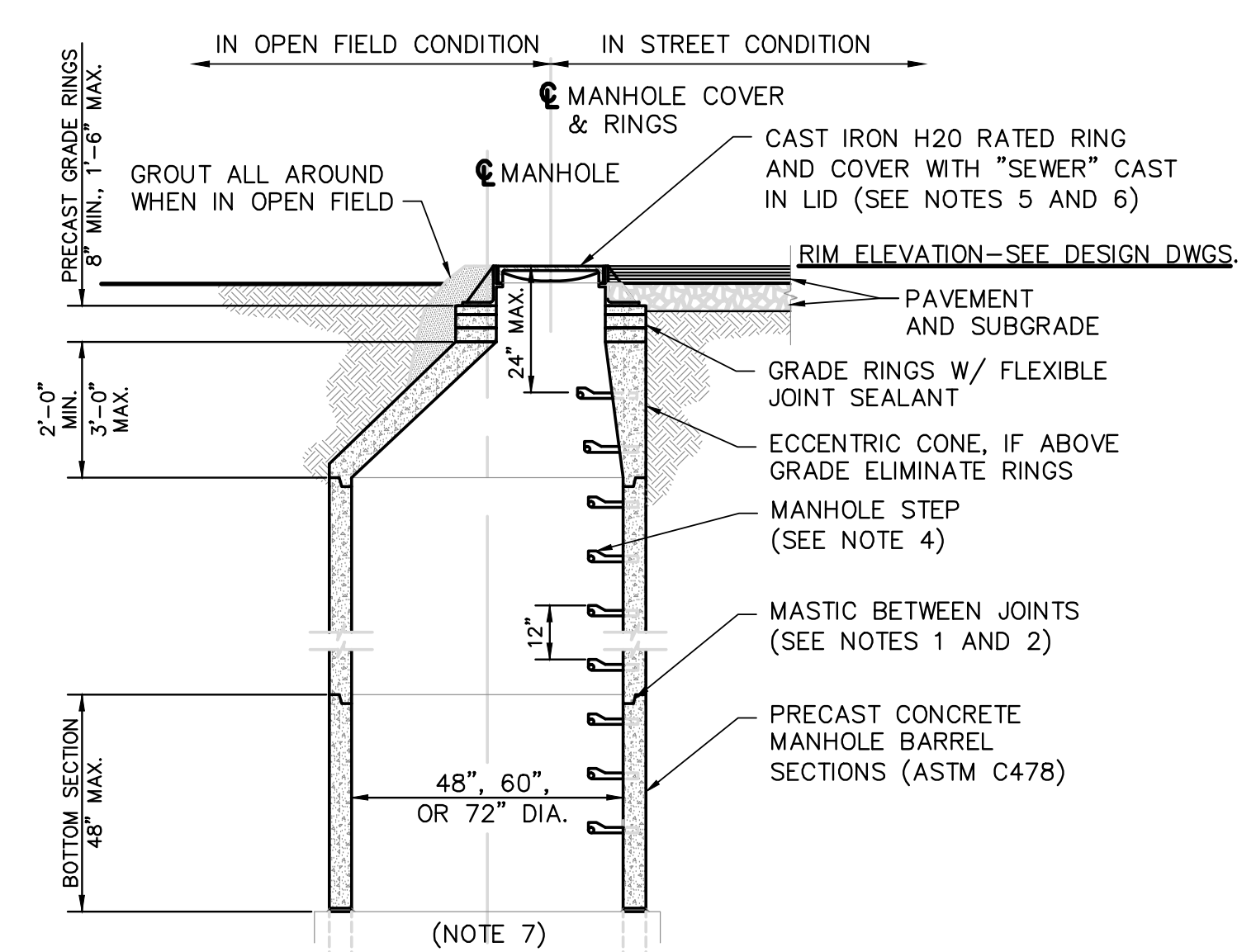
MANHOLE BASE INTERIOR



TYPICAL SEWER/WATER TRENCH SECTION

NOTES:

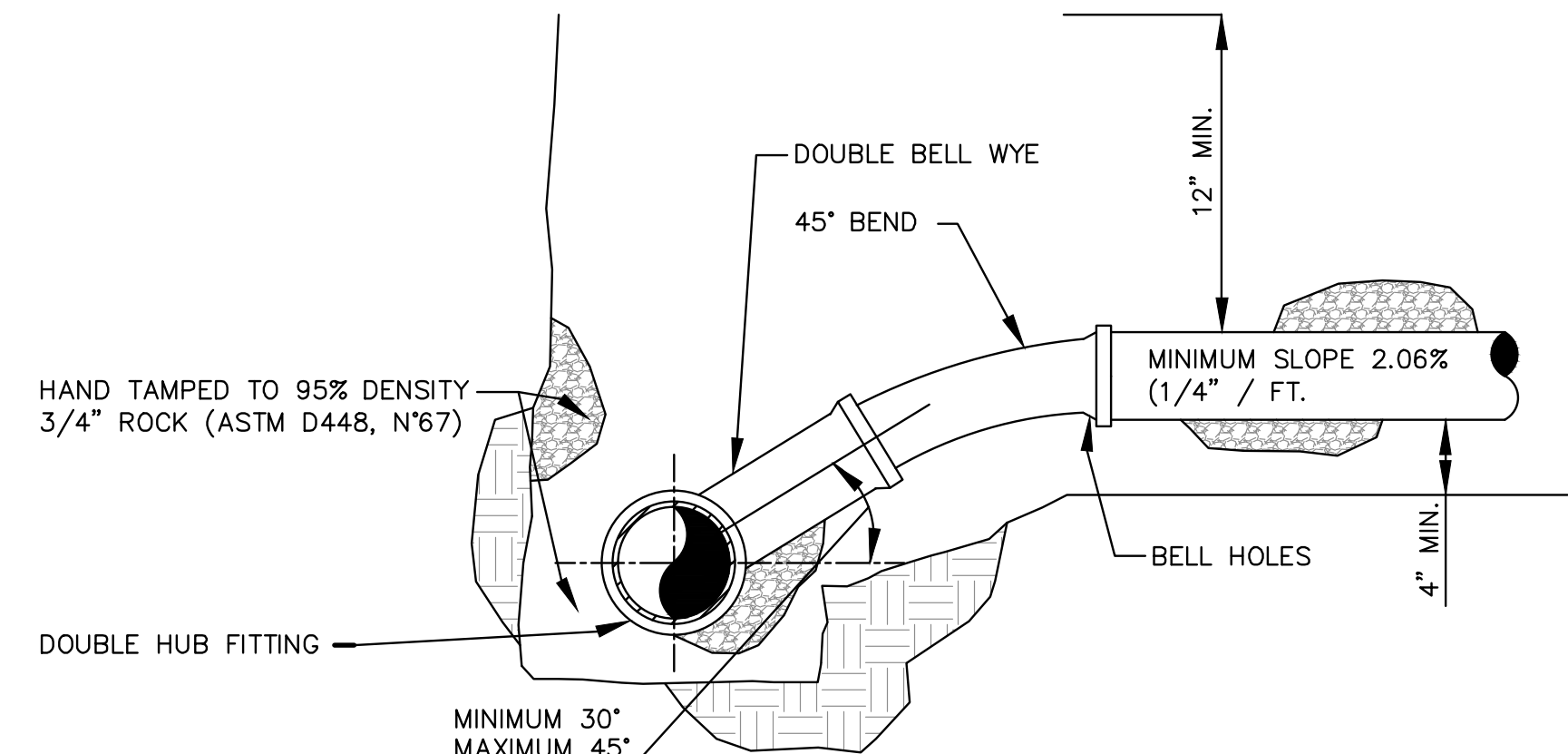
- 1 - ASPHALT PATCH SHALL BE A MINIMUM OF 3" ASPHALT ON 6" ROAD BASE OR, SHALL MATCH EXISTING PAVEMENT SECTION, WHICHEVER IS GREATER.
- 2 - TRENCH WALLS TO BE SUPPORTED AS REQUIRED BY O.S.H.A.
- 3 - MINIMUM COVER TO BE BELOW STREET FINISH GRADE OR GROUND SURFACE.
- 4 - MINIMUM TRENCH WIDTH = PIPE O.D. + 12" MAXIMUM TRENCH WIDTH = PIPE O.D. + 40" MAXIMUM TRENCH WIDTH IF TRENCH BOX REQUIRED = 60"
- 5 - UTILITY TRENCH BACKFILL BENEATH PAVED AREAS SHOULD BE PLACES IN 8" HORIZONTAL LIFTS AND COMPACTED TO AT LEAST 95% OF MAXIMUM STANDARD PROCTOR (ASTM D-698) DRY DENSITY AT A MOISTURE CONTENT WITHIN 3% OF OPTIMUM. WATER SEEPAGE SHOULD BE EXPECTED IN DEEPER EXCAVATIONS AND DEWATERING WILL BE REQUIRED TO KEEP TRENCH AND BACKFILL DRY AT ALL TIMES.



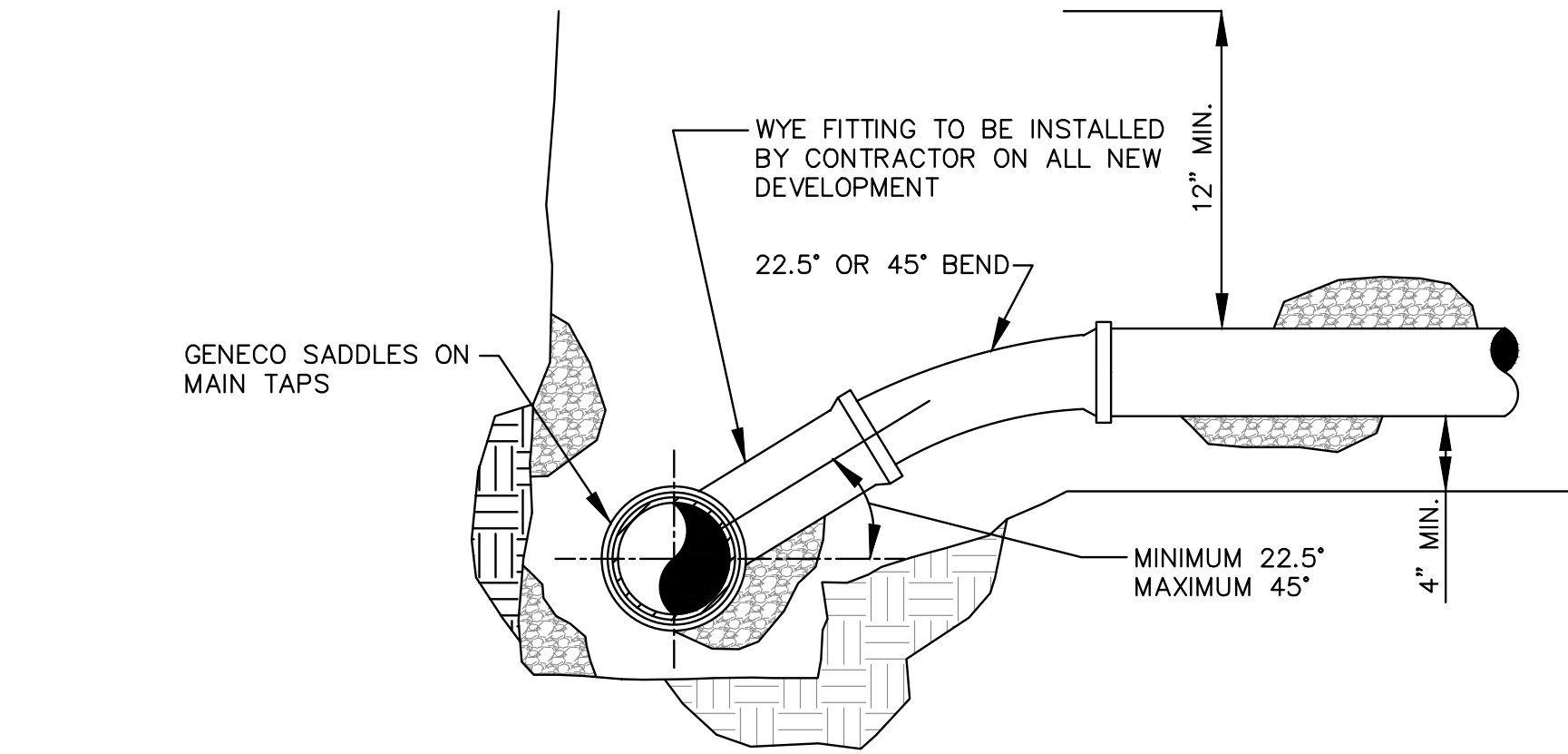
NOTES:

1. ALL JOINTS TO BE DOUBLE BAND RUB-R-NEK.
2. ALL JOINTS SHALL BE DOUBLE SEALED WITH FLEXIBLE PLASTIC JOINT SEALING MATERIAL TO EXTRUDE INTO MANHOLE AND BE TRIMMED OFF AT FACE OF CONCRETE BELOW WATER TABLE.
3. ALL MANHOLES PLACED IN "OPEN SPACE" OR FIELDS SHALL BE INSTALLED WITH A RING AND COVER THAT IS 6" ABOVE FINAL GRADE WITH A COLLAR OF CONCRETE. A MARKER POST SHALL BE INSTALLED NEAR BY. SEE MARKER POST DETAIL.
4. STEPS INSTALLED OVER DOWNSTREAM INVERT OF MANHOLE AND SHALL BE COPOLYMER COATED PLASTIC 1/2" GRADE 60 STEEL REINFORCED, SIMILAR TO PS2-PF MANUFACTURED BY MA INDUSTRIES.
5. 60" OR LARGER MANHOLES REQUIRE A 30" OPENING.
6. ALL RING AND COVERS TO BE CASTINGS, INC. J-1161 FOR 24" OPENINGS OR J-1361 FOR 30" OPENINGS.
7. SEE EITHER CAST IN PLACE OR PRECAST MANHOLE BASE DETAIL.
8. AVOID 12" HIGH BARREL SECTIONS IF POSSIBLE.
9. WRAP ALL BARREL SECTIONS AND CONE WITH BITUTHANE WRAP - 6" OVERLAP REQUIRED.

MANHOLE SECTION W/ ECCENTRIC CONE



45° BEND CONNECTION TO WYE



45° BEND CONNECTION TO TAPPING SADDLE

NOTES:

- 1 - SEWER SERVICE TO BE ASTM 3034, SDR26 PVC PIPE.
- 2 - ALL SERVICE LINES SHALL BE INSPECTED BY TOWN PERSONNEL DURING INSTALLATION AND APPROVED BEFORE BACKFILLED.

	TOD FINAL SITE PLAN & PLAT SUBMITTAL Description
	4/7/17 Date
	FINAL SITE PLAN/PLAT Revision/Issue
	1 No.

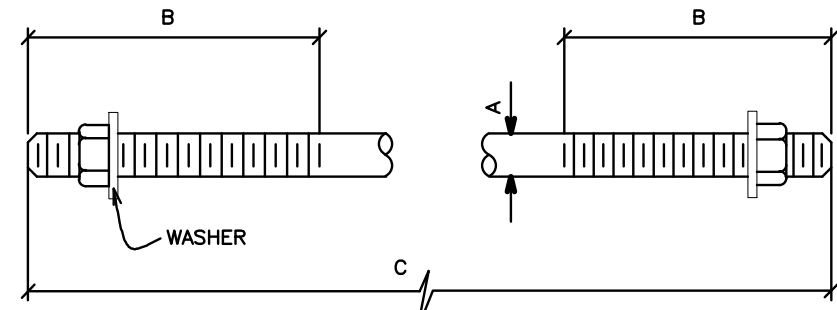
TEN MILE ENGINEERING, INC.
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DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
 TOWN OF DILLON, COLORADO
SEWER DETAILS

Project DILLON RIDGE VISTAS	
Date 4/7/17	Sheet 11
Scale NTS	

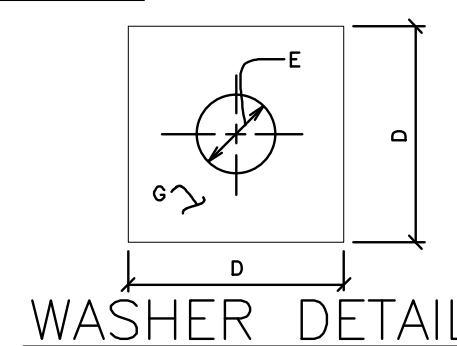
RESTRAINING RODS

SIZE OF PIPE	6"	8"	12"
90'	5/8"	3/4"	1"
45'	1/2"	1/2"	5/8"
22 1/2'	1/2"	1/2"	1/2"
11 1/4'	1/2"	1/2"	1/2"



TIE ROD DETAILS

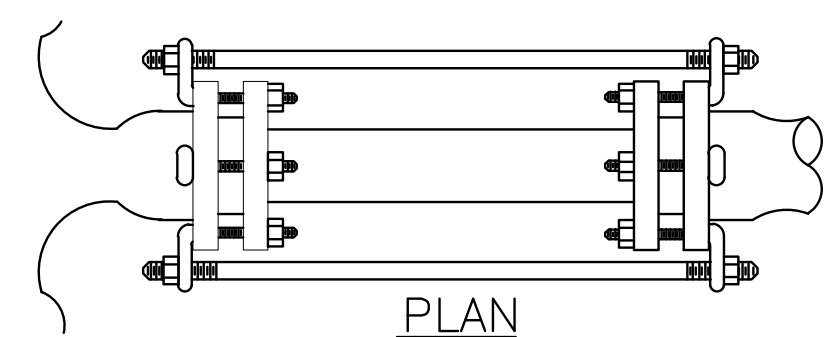
- NOTE:
 1.) SEE TIED JOINTS, ROD DIMENSIONS SHEET.
 2.) SEE CLAMP DETAILS AND DIMENSIONS FOR PROPER PLACEMENT OF WASHERS.
 3.) ALL RODS AND BOLTS SHALL BE CORTEN OR STAINLESS STEEL



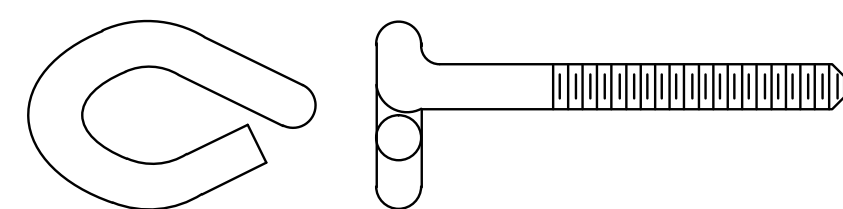
WASHER DETAIL

TIE RODS				WASHERS		
A	B	C		D	E	G
ROD DIAMETER	ROD LENGTH	ROD LENGTH	GRADE	WIDTH	HOLE DIAMETER	THICKNESS
3/4", 1"	6"	1' TO 11' & 20'	MS	5"	1/8" Larger than Rod Ø	1/2"
3/4", 1-1/2"	ALL THREAD	1' TO 11' & 20'	HS	6"	1/8" Larger than Rod Ø	5/8"

TIE ROD AND WASHER DETAILS



PLAN



DETAIL DIMENSIONS

ALLOWABLE PIPE DIAMETER INCHES	BOLT SIZE	NO. OF BOLTS REQUIRED
4	3/4"	2
6	3/4"	2
8	3/4"	2
10	3/4"	4
12	3/4"	6

- NOTES:
 1 - THE BOLT SHALL BE MANUFACTURED OF "COR-TEN" OR APPROVED EQUAL.
 2 - THE BOLT MAY BE HEAT TREATED.

SECONDARY JOINT RESTRAINT DETAIL

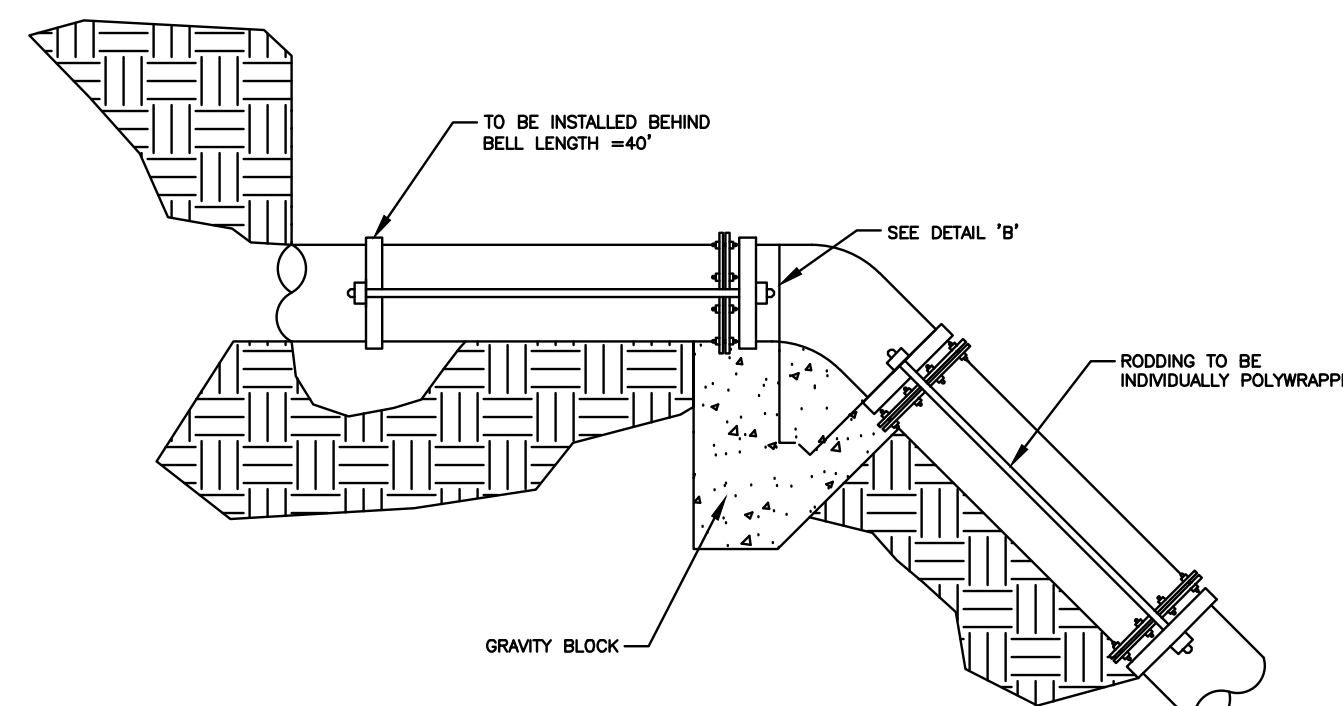


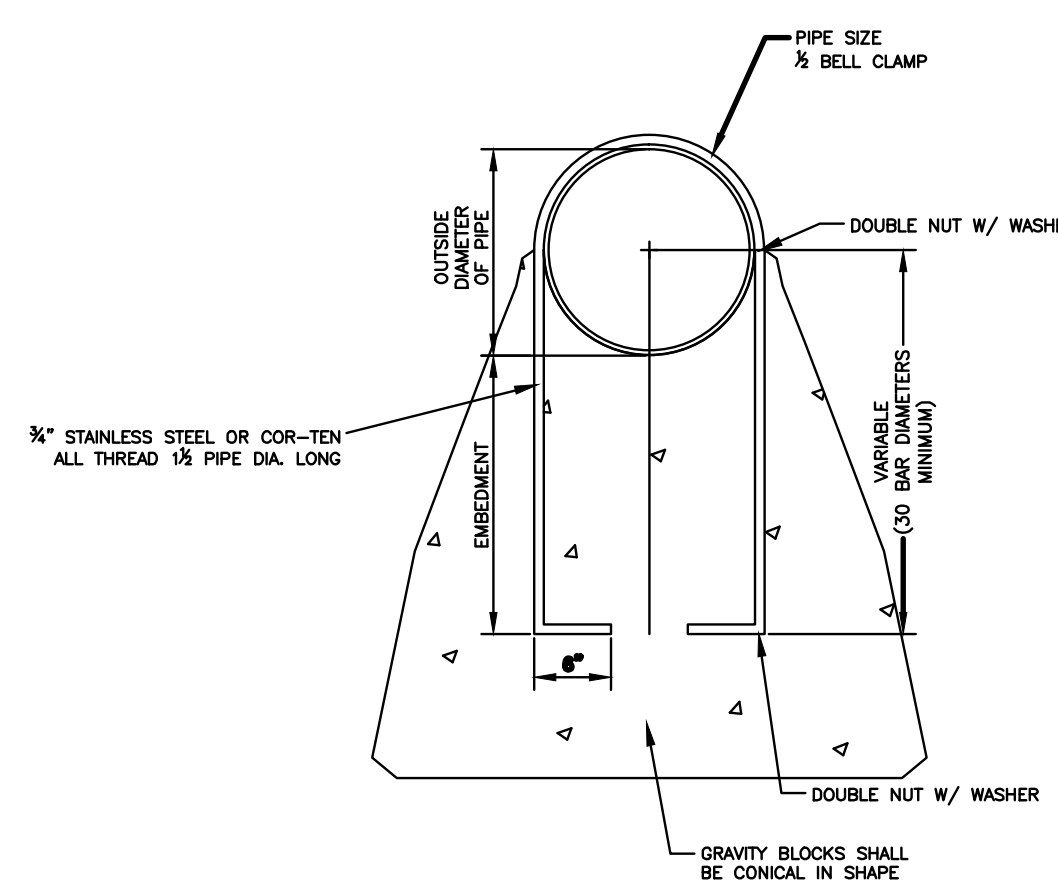
TABLE 1

SIZE OF PIPE	8"	12"
45'	5/8"	7/8"
22 1/2'	1/2"	5/8"
11 1/4'	1/2"	1/2"

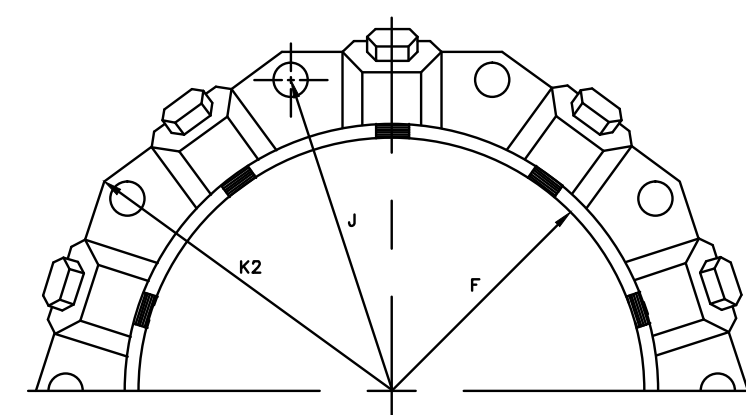
GRAVITY BLOCKS
 MINIMUM VOLUME (IN CUBIC FEET)

SIZE OF PIPE	BENDS			TEE OR DEAD END
	11 1/2"	22 1/2"	45'	
8"	20.0	40.0	74.0	NA
12"	46.0	90.0	166.0	NA

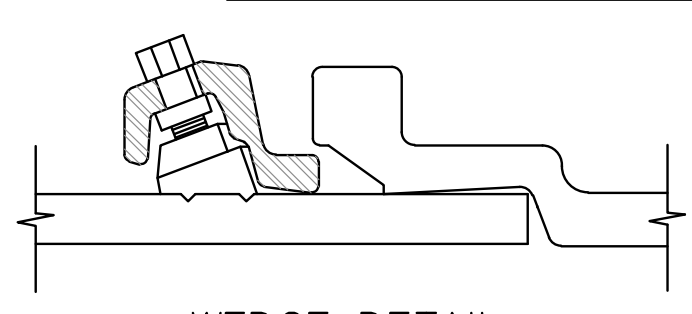
- NOTES:
 1 - MEGA-LUC RESTRAINT MAY BE USED IN PLACE OF RODS AND CLAMPS.
 2 - RODDING SHALL BE PER TABLE 1. RODDING AND NUTS TO BE STAINLESS STEEL OR COR-TEN.
 3 - ALL PIPES AND RODS SHALL BE WRAPPED IN POLYETHYLENE.
 4 - VERTICAL 90° BENDS ARE NOT ALLOWED.
 5 - ALL JOINTS SHALL BE RESTRAINED BETWEEN THE FITTINGS.



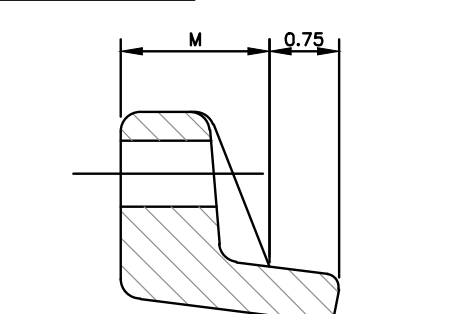
VERTICAL THRUST BLOCK DETAIL



MECHANICAL JOINT RESTRAINT



WEDGE DETAIL

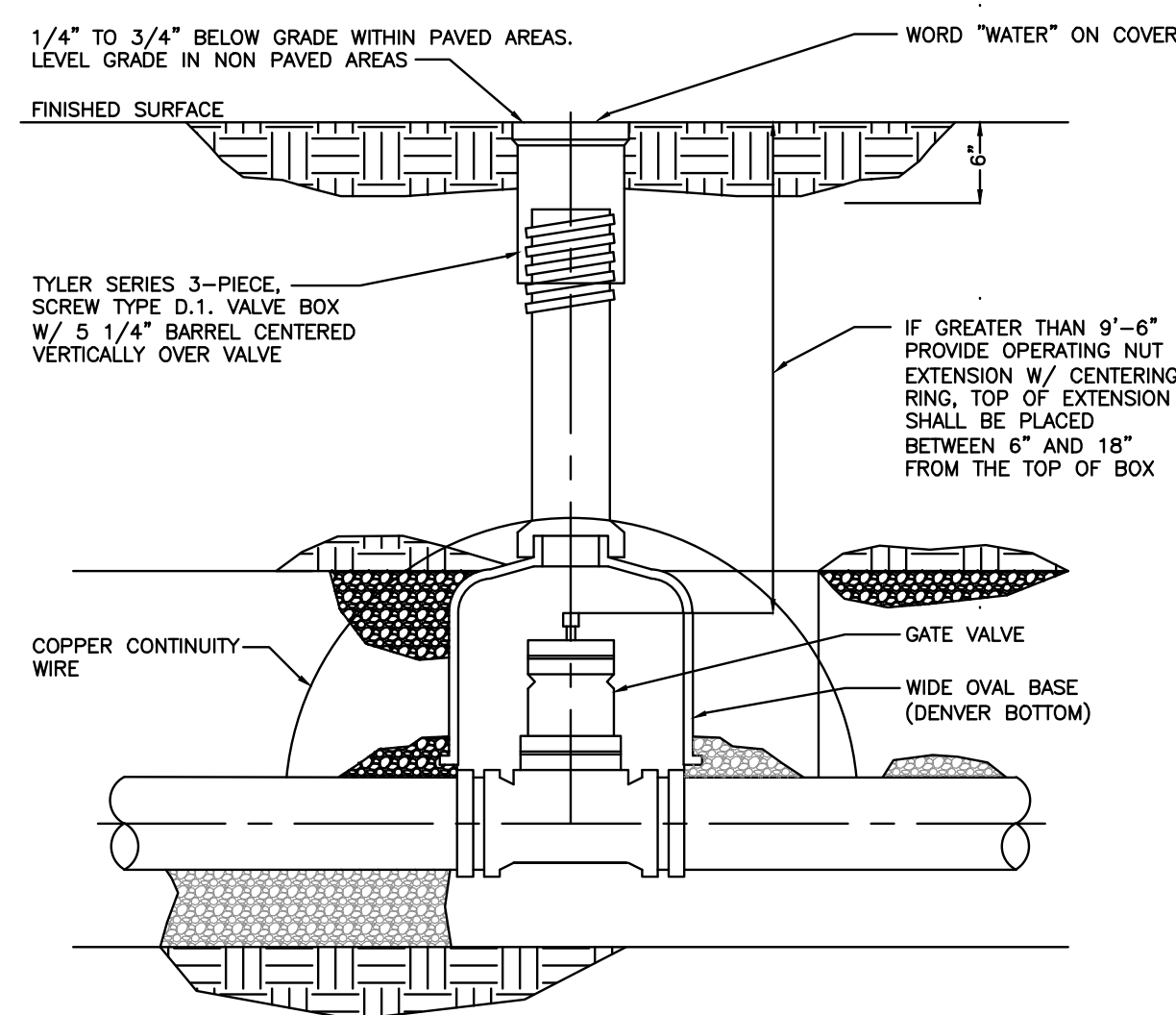


BOLT HOLE DETAIL

DIMENSIONS

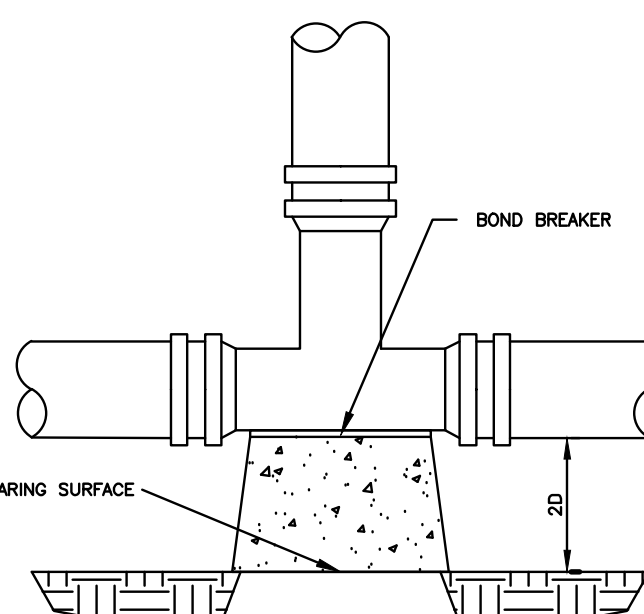
NOMINAL PIPE SIZE	NO OF BOLTS	NO OF WEDGES	K2 INCHES	J INCHES	F INCHES	M INCHES
6"	6	3	11.12	9.50	7.00	0.88
8"	6	4	13.37	11.75	9.15	1.00
10"	8	6	15.62	14.00	11.20	1.00
12"	8	8	17.88	16.25	13.30	1.25
16"	12	12	22.50	21.00	17.54	1.56
20"	14	14	27.00	25.50	21.74	1.69

JOINT RESTRAINT DETAIL

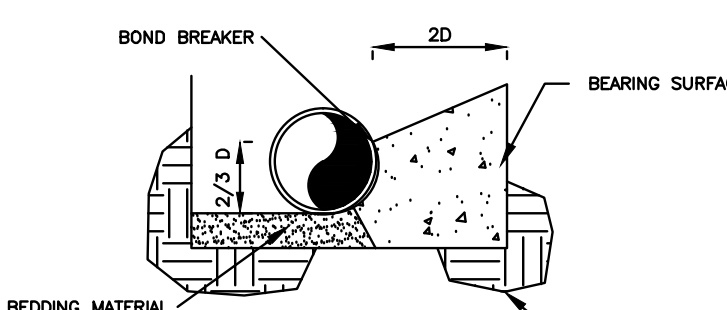


- NOTES:
 1. GATE VALVES SHALL OPEN CCW AND BE RESILIENT SEAT.
 2. FITTINGS SHALL BE WRAPPED WITH 8 MIL. MINIMUM THICKNESS POLYETHYLENE SHEETING. ALL VALVES AND FITTINGS SHALL BE EPOXY COATED.
 3. VALVE BOX TOP SHALL BE SET 1/4" TO 3/4" BELOW FINAL ASPHALT PAVEMENT GRADE. SHALL BE INSTALLED AT GRADE IN NON-PAVED AREAS.
 4. PROVIDE MARKER POST WHERE NECESSARY. AS DETERMINED BY WATER DEPARTMENT.
 5. SEE TYPICAL WATER TRENCH DETAIL.
 6. VALVE BOX AND ROD SHALL BE INSTALLED VERTICALLY AND SHALL NOT BE TILTED IN ANY DIRECTION.(WHERE REQUIRED FOR VALVES DEEPER THEN 10')
 7. VALVE BOX EXTENSION TO BE PROVIDED FOR ALL VALVES DEEPER THAN 10FT.

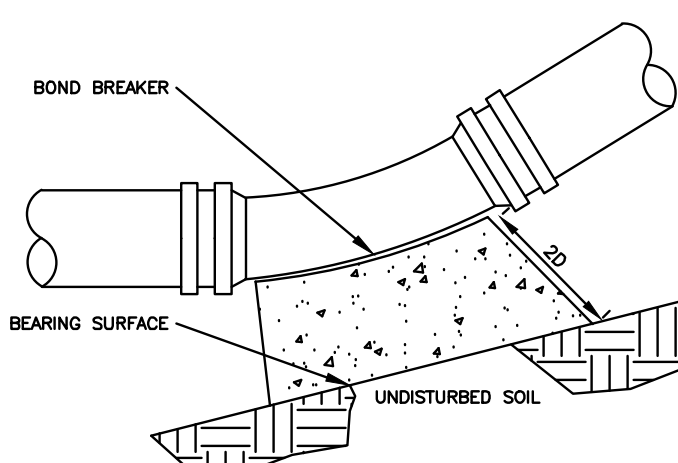
VALVE AND VALVE BOX DETAIL
 N.T.S.



TEE



TYPICAL CROSS SECTION



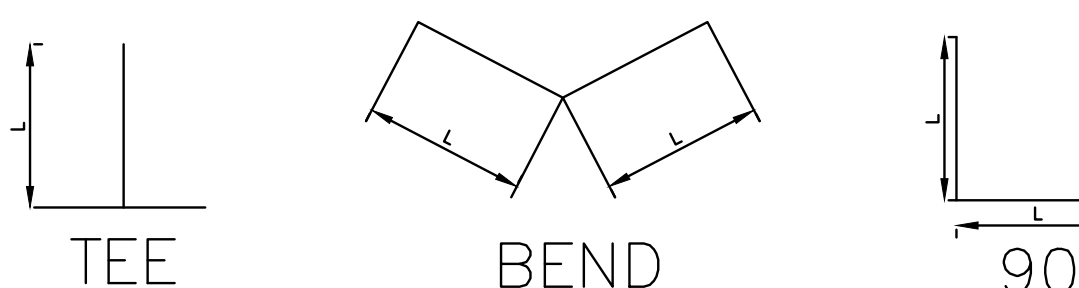
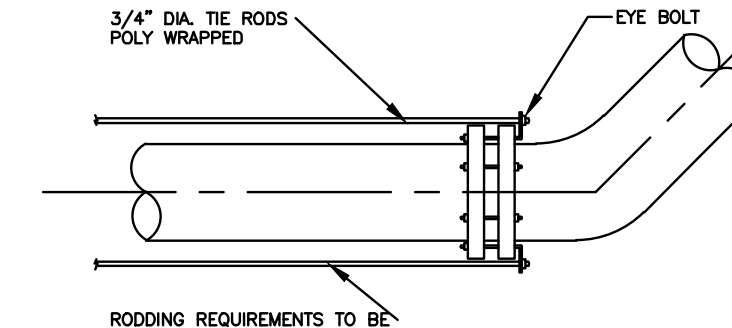
BEND

MINIMUM BEARING SURFACE AREA
 (IN SQUARE FEET)

SIZE OF PIPE	BENDS				TEE OR DEAD END
	11 1/2"	22 1/2"	45'	90'	
4"	0.5	1.0	1.5	2.5	2.0
6"	1.0	1.5	3.0	5.5	4.0
8"	1.5	2.5	5.0	9.0	6.5
12"	3.0	5.5	10.5	19.5	14.0
16"	5.0	9.5	18.5	34.0	24.0

- NOTES:
 1 - D = PIPE DIAMETER
 2 - DO NOT COVER FITTING BOLTS WITH CONCRETE.
 3 - ALL FITTINGS ARE TO BE WRAPPED IN POLYETHYLENE SHEETING.
 4 - PROVIDE MINIMUM 2500 PSI CONCRETE.
 5 - SIZES SHOWN FOR 1,500 PSF SOIL BEARING PRESSURE AND AN INTERNAL TEST PRESSURE OF 150 PSI.

THRUST BLOCK DETAIL



ROD DIAMETER, GRADE AND LENGTH OF TIED PIPE

PIPE SIZE	4"			6"			8"			12"			16" AND LARGER			
	FITTING	D	L	G	D	L	G	D	L	G	D	L	G	D	L	G
TEE BRANCH ONLY	3/4"	30"	M.S.	3/4"	45"	M.S.	3/4"	60"	M.S.	3/4"	86"	M.S.				
PLUG OR 90° BEND	3/4"	30"	M.S.	3/4"	45"	M.S.	3/4"	60"	M.S.	3/4"	86"	M.S.				
45° BEND	3/4"	9"	M.S.	3/4"	13"	M.S.	3/4"	18"	M.S.	3/4"	25"	M.S.				
22-1/2° BEND	3/4"	1'	M.S.	3/4"	4'	M.S.	3/4"	5'	M.S.	3/4"	7'	M.S.				
11-1/4° BEND							3/4"	1'	M.S.	3/4"	2'	M.S.				
ALL VERTICAL BENDS	TOTALLY RESTRAINED L=40'															

- NOTES:
 1 - LENGTH OF RESTRAINED PIPE MEASURED EACH WAY FROM BENDS OR FITTINGS.
 2 - LENGTH REFERS TO THE AMOUNT OF PIPE WHICH MUST BE TIED TOGETHER, AND IS NOT NECESSARILY THE LENGTH OF THE RODS.
 3 - CLAMPS AND RODS SHALL BE EXTENDED TO NEXT PIPE.
 4 - D = DIAMETER, L = LENGTH, G = STEEL GRADE.
 5 - MINIMUM 9.5' OF GROUND COVER IS REQUIRED.
 6 - BASED ON 150 P.S.I. INTERNAL PRESSURE.
 7 - ALL RESTRAINT RODS AND HARDWARE ARE TO BE STAINLESS STEEL OR COR-TEN.
 8 - NUTS SHALL BE A.S.T.M., STANDARD DESIGNATION A-307, GRADE A OR B, HEXAGON HEAVY SERIES.
 9 - LENGTH OF TIED PIPE CHART IS ALSO FOR THE LENGTH OF PIPE RESTRAINING GLANDS AND BELL RESTRAINTS.
 10 - ALL RESTRAINING GLANDS SHALL BE SIMILAR AND EQUIVALENT TO EBBA IRON SERIES 1100 OR UNI-FLANGE 1400 SERIES FOR DIP AND EBBA IRON SERIES 2000 PV OR UNI-FLANGE SERIES 1500 FOR PVC. BELL JOINT RESTRAINTS SHALL BE SIMILAR AND EQUIVALENT TO EBBA IRON SERIES 1700 OR UNI-FLANGE SERIES 1390 FOR DIP AND EBBA 1600 OR UNIFLANGE SERIES 1390 FOR PVC.

TYPICAL RESTRAINED JOINT



No.	Revision/Issue	Date	Description
1	FINAL SITE PLAN/PLAT	4/7/17	TOD FINAL SITE PLAN & PLAT SUBMITTAL

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DILLON RIDGE VISTAS
BLOCK 6 DILLON RIDGE MARKETPLACE
 TOWN OF DILLON, COLORADO
WATER DETAILS

Project	DILLON RIDGE VISTAS		
Date	4/7/17	Sheet	12
Scale	NTS		