

PROPERTY BOUNDARY				
ADJACENT PROPERTY BOUNDARY				
EASEMENT				
SECTION LINE				
CENTERLINE				
FOUND MONUMENT		(•)	)	
FOUND SECTION CORNER		Ă	<b>,</b>	
BUILDING	<u> </u>	<u> </u>		
ROOF LINE/OVERHANG				
DECK				
WALL				
FENCE	— x—	x	– x —	— x—
PROPOSED MAJOR CONTOUR		6805	j ——	
PROPOSED MINOR CONTOUR				
EXISTING MAJOR CONTOUR		<del> 6805</del>	5 – —	
EXISTING MINOR CONTOUR				
ASPHALT				
CONCRETE		The state of		
GRAVEL				
SIGN				
PROPOSED SANITARY SEWER W/ MH	——ss	<b>s</b> ——(ss)		ss——
EXISTING SANITARY SEWER W/ MH	——XS——	—xs— <del>(xs)</del>	—xs—	XS
PROPOSED WATER	w-	w	-w	_w
PROPOSED GV, FH & CS	H		•	◉
EXISTING WATER	——XW—	XW	—×w——	—XW——
GAS	——XG—	XG	—XG	—XG——
GAS METER AND MANHOLE/VAULT	G	SM .	(	9
CABLE	XTV	XTV	-XTV -	XTV
CABLE PEDESTAL		TV		
FIBER OPTIC	XFO	XF0	— XF0 —	XFO
TELEPHONE	XT	XT	—хт——	—XT——
TELEPHONE PEDESTAL AND MANHOLE/VAULT		Т	Ī	Ď
ELECTRIC	———XE—	XE	—XE	—XE——
ELECTRIC PED, JUNCTION BOX AND METER		E·J		EM
LIGHT POLE AND LIGHT POLE W/ MAST	7	<del> </del>	4	<b>*</b>
OVERHEAD ELECTRIC	—— ХОН ——	хон	—хон —	хон
UTILITY POLE AND GUY WIRE	~	2	4	<del></del>
DITCH/SWALE			<b>.</b>	<del></del>
EXISTING STORM SEWER W/ FES				
PROPOSED STORM SEWER W/ FES				
NU ET AND OTODIANANTOS	-			7

- ALL REFERENCES HEREON TO BOOKS, PAGES, FILES, RECEPTION NUMBERS AND FILE NUMBERS ARE TO PUBLIC DOCUMENTS FILED IN THE RECORDS OF ROUTT COUNTY, COLORADO.
- EASEMENTS AND PUBLIC DOCUMENTS SHOWN OR NOTED HEREON WERE EXAMINED AS TO LOCATION AND PURPOSE AND WERE NOT EXAMINED AS TO RESERVATIONS, RESTRICTIONS, CONDITIONS, OBLIGATIONS, TERMS, OR AS TO THE RIGHT TO GRANT THE SAME.
- UTILITIES ARE SHOWN PER APPARENT SURFACE EVIDENCE TOGETHER WITH RECORD INFORMATION. IF MORE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES ARE REQUIRED, THE UTILITY WILL HAVE TO BE VERIFIED BY FIELD POTHOLING. LANDMARK CONSULTANTS, INC. AND THE SURVEYOR OF RECORD SHALL NOT BE LIABLE FOR THE LOCATION OF OR THE FAILURE TO NOTE THE LOCATION OF NON-VISIBLE UTILITIES.
- ANY PERSON WHO KNOWINGLY REMOVES, ALTERS OR DEFACES ANY PUBLIC LAND SURVEY MONUMENT OR LAND MONUMENT OR ACCESSORY, COMMITS A CLASS TWO (2) MISDEMEANOR PURSUANT TO STATE STATUTE 18-4-508, C.R.S.
- 5. THIS SITE CONTAINS A CALCULATED AREA OF 201.9 ACRES.
- A PORTION OF THE SITE IS LOCATED WITHIN SPECIAL FLOOD HAZARD AREA ZONE A OF THE UNNAMED TRIBUTARY TO BURGESS CREEK AS DETERMINED BY FEMA FLOOD INSURANCE RATE MAP NUMBER 08107C0883D, WITH AN EFFECTIVE DATE OF FEBRUARY 4, 2005 AND LOMR 18-08-0922P.
- THE MEASURED DISTANCES SHOWN HEREON ARE IN U.S. SURVEY FEET.
- DOMESTIC WATER & FIRE PROTECTION SYSTEM DESIGNED BY WRIGHT WATER ENGINEERS SHALL BE REVIEWED AND APPROVED BY MOUNT WERNER WATER AND STEAMBOAT SPRINGS FIRE DEPARTMENT.
- 9. ITEMS INTENDED FOR DEMOLITION ARE NOT SHOWN FOR ILLUSTRATIVE PURPOSES. THE MINI-GOLF AND MOUNTAIN COASTER REMOVAL IS NOT-A-PART AND IS PERMITTED UNDER SPRDE220354.

## PROPERTY DESCRIPTION:

10. LOT 2, PARCEL D, SKI HILL SUBDIVISION PER FILE #14469 IN ROUTT COUNTY RECORDS AND LOT 1, GREEN HORN RANCH PER FILE #14524 IN ROUTT COUNTY

COMPLIANCE

07/06/2022

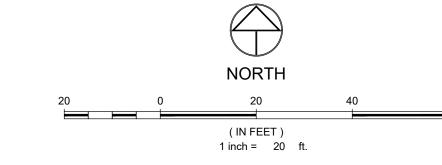
CALL UTILITY NOTIFICATION CENTER OF



Call before you dig. CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF







## LEGEND:

PROPOSED MINOR CONTOUR EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR SWALE DITCH FLOWLINE APPROX. LIMITS OF GRADING MODIFICATION

PROPOSED OVERLAND FLOW DIRECTION

00.10

- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR FOR ALL UNKNOWN UNDERGROUND UTILITIES.
- ALL PROJECT DATA IS ON VERTICAL DATUM; NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
- ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE NECESSARY.
- AND RECOMMENDATIONS.
- 5. ALL CURB SPOTS SHOWN ARE FLOWLINE ELEVATIONS, UNLESS NOTED OTHERWISE. ALL OTHER SPOTS ARE FINISHED GRADE ELEVATIONS.
- 6. RETAINING WALLS TO BE DESIGNED BY OTHERS.
- 7. SKI INFRASTRUCTURE AND DESIGN PARAMETERS BY OTHERS.
- 8. ITEMS INTENDED FOR DEMOLITION ARE NOT SHOWN FOR ILLUSTRATIVE PURPOSES. DEMOLITION OF THE MINI-GOLF AND MOUNTAIN COASTER ARE 'NOT A PART' AND ARE PERMITTED UNDER SPRDE220354.

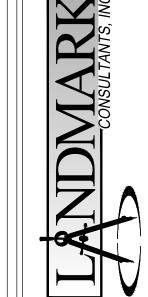
CALL UTILITY NOTIFICATION CENTER OF



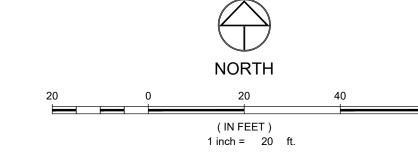
Call before you dig. CALL 2 BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE, OR EXCAVATE FOR THE MARKING OF UNDERGROUND MEMBER UTILITIES.

COMPLIANCE

07/06/2022







## LEGEND:

PROPOSED MINOR CONTOUR EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR SWALE DITCH FLOWLINE APPROX. LIMITS OF GRADING MODIFICATION

PROPOSED SPOT ELEVATION PROPOSED OVERLAND FLOW DIRECTION

PROPOSED CHANNELIZED FLOW DIRECTION

00.10

- THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR FOR ALL UNKNOWN UNDERGROUND UTILITIES.
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- 4. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
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REVIEWED 0 CODE COMPLIANCE

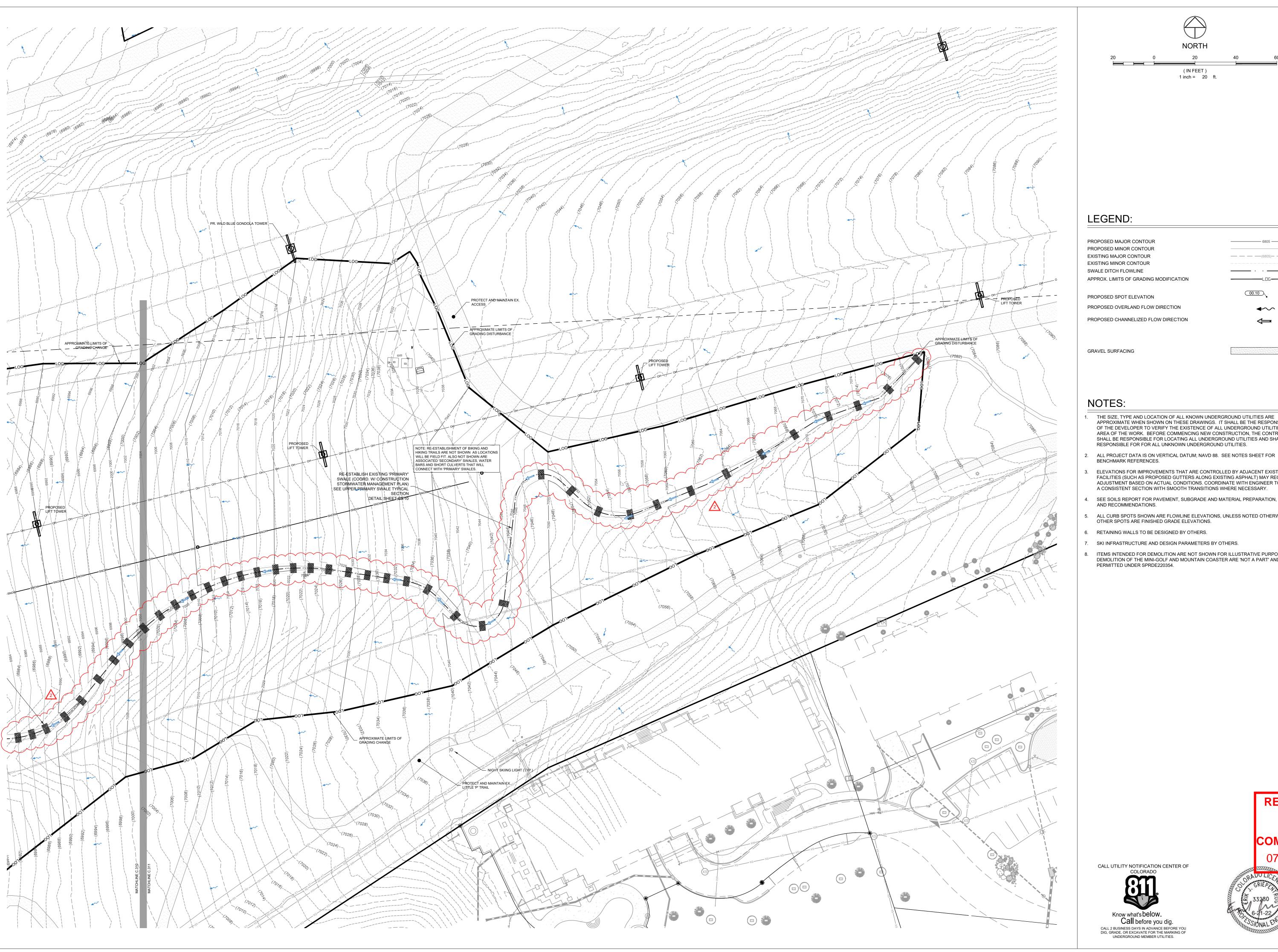
07/06/2022

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SHEET C.300



(IN FEET) 1 inch = 20 ft.

PROPOSED MAJOR CONTOUR PROPOSED MINOR CONTOUR EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR SWALE DITCH FLOWLINE APPROX. LIMITS OF GRADING MODIFICATION

00.10

PROPOSED CHANNELIZED FLOW DIRECTION

GRAVEL SURFACING

- APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR FOR ALL UNKNOWN UNDERGROUND UTILITIES.
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CODE COMPLIANCE

CALL UTILITY NOTIFICATION CENTER OF

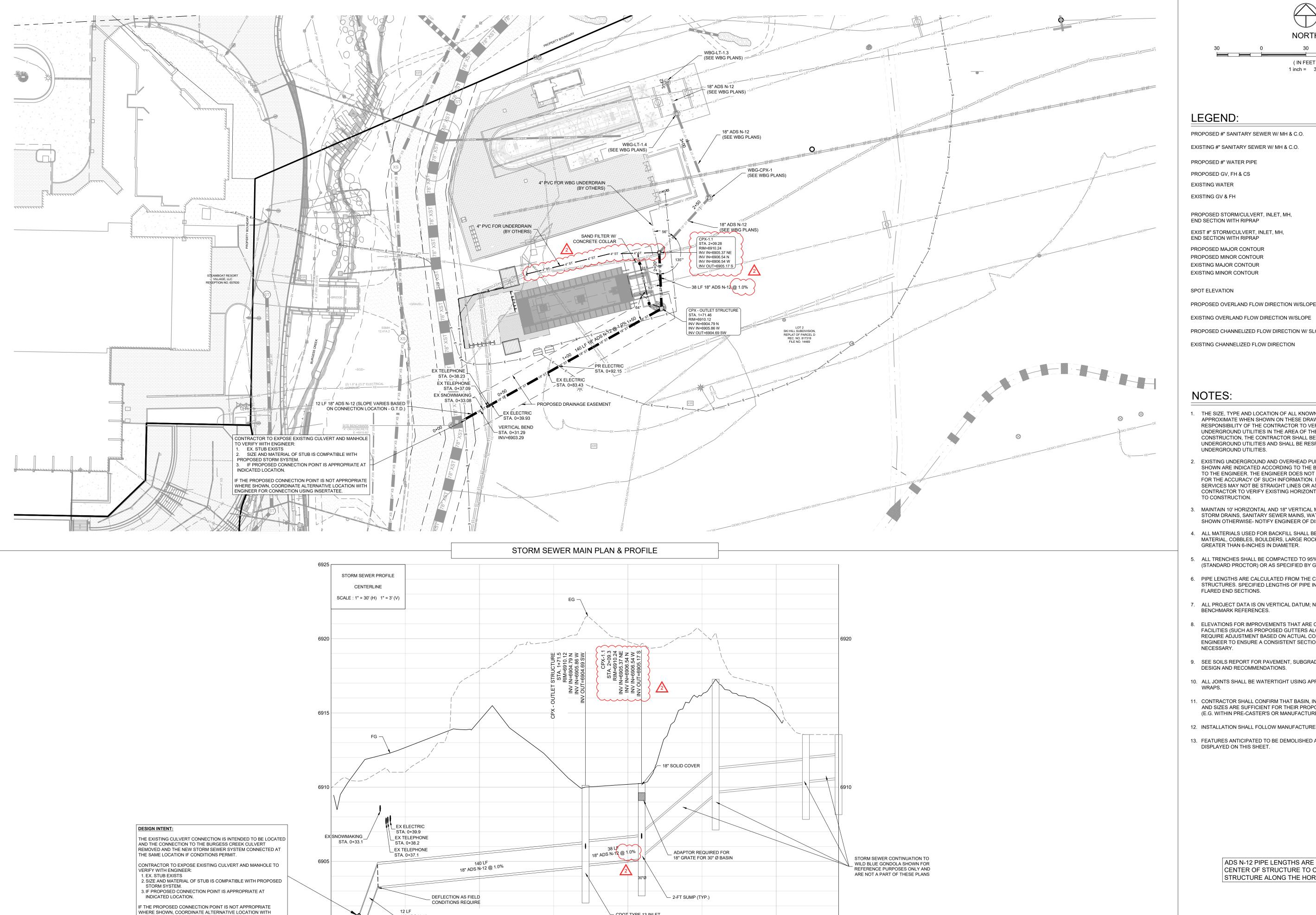


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07/06/2022

SHEET C.301



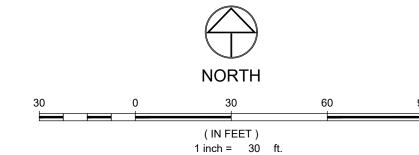
CDOT TYPE 13 INLET

ENGINEER FOR CONNECTION USING INSERTA-TEE.

\_\_18" ADS N-12

EX. 78" BURGES CREEK CULVER® |

PIPE SLOPE TO BE FIELD DETERMINED (GTD)



PROPOSED #" SANITARY SEWER W/ MH & C.O. 8" XS — (XS)—8" XS — (C)— EXISTING #" SANITARY SEWER W/ MH & C.O. PROPOSED #" WATER PIPE PROPOSED GV, FH & CS EXISTING WATER \_\_\_\_\_8" XW \_\_\_\_\_ EXISTING GV & FH

PROPOSED STORM/CULVERT, INLET, MH, END SECTION WITH RIPRAP EXIST #" STORM/CULVERT, INLET, MH, END SECTION WITH RIPRAP PROPOSED MAJOR CONTOUR

00.10

EXISTING MAJOR CONTOUR EXISTING MINOR CONTOUR

EXISTING OVERLAND FLOW DIRECTION W/SLOPE PROPOSED CHANNELIZED FLOW DIRECTION W/ SLOPE

- 1. THE SIZE, TYPE AND LOCATION OF ALL KNOWN UNDERGROUND UTILITIES ARE APPROXIMATE WHEN SHOWN ON THESE DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE OF ALL UNDERGROUND UTILITIES IN THE AREA OF THE WORK. BEFORE COMMENCING NEW CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR ALL UNKNOWN UNDERGROUND UTILITIES.
- 2. EXISTING UNDERGROUND AND OVERHEAD PUBLIC AND PRIVATE UTILITIES AS SHOWN ARE INDICATED ACCORDING TO THE BEST INFORMATION MADE AVAILABLE TO THE ENGINEER. THE ENGINEER DOES NOT GUARANTEE NOR IS RESPONSIBLE FOR THE ACCURACY OF SUCH INFORMATION. EXISTING UTILITY MAINS AND SERVICES MAY NOT BE STRAIGHT LINES OR AS INDICATED ON THESE DRAWINGS. CONTRACTOR TO VERIFY EXISTING HORIZONTAL AND VERTICAL LOCATIONS PRIOR TO CONSTRUCTION.
- 3. MAINTAIN 10' HORIZONTAL AND 18" VERTICAL MINIMUM SEPARATION BETWEEN ALL STORM DRAINS, SANITARY SEWER MAINS, WATER MAINS & SERVICES UNLESS SHOWN OTHERWISE- NOTIFY ENGINEER OF DISCOVERED CONFLICTS.
- 4. ALL MATERIALS USED FOR BACKFILL SHALL BE FREE FROM REFUSE ORGANIC MATERIAL, COBBLES, BOULDERS, LARGE ROCKS OR STONES OR FROZEN SOILS GREATER THAN 6-INCHES IN DIAMETER.
- 5. ALL TRENCHES SHALL BE COMPACTED TO 95% AS DETERMINED BY ASTM D698 (STANDARD PROCTOR) OR AS SPECIFIED BY GEOTECHNICAL ENGINEER.
- 6. PIPE LENGTHS ARE CALCULATED FROM THE CENTER OF MANHOLES AND STRUCTURES. SPECIFIED LENGTHS OF PIPE INCLUDES THE LAYING LENGTH OF FLARED END SECTIONS.
- 7. ALL PROJECT DATA IS ON VERTICAL DATUM; NAVD 88. SEE NOTES SHEET FOR BENCHMARK REFERENCES.
- 8. ELEVATIONS FOR IMPROVEMENTS THAT ARE CONTROLLED BY ADJACENT EXISTING FACILITIES (SUCH AS PROPOSED GUTTERS ALONG EXISTING ASPHALT) MAY REQUIRE ADJUSTMENT BASED ON ACTUAL CONDITIONS. COORDINATE WITH ENGINEER TO ENSURE A CONSISTENT SECTION WITH SMOOTH TRANSITIONS WHERE
- 9. SEE SOILS REPORT FOR PAVEMENT, SUBGRADE AND MATERIAL PREPARATION, DESIGN AND RECOMMENDATIONS.
- 10. ALL JOINTS SHALL BE WATERTIGHT USING APPROPRIATE GASKETS OR JOINT
- 11. CONTRACTOR SHALL CONFIRM THAT BASIN, INLET, AND/OR MANHOLES DIAMETER AND SIZES ARE SUFFICIENT FOR THEIR PROPOSED METHODS OF INSTALLATION (E.G. WITHIN PRE-CASTER'S OR MANUFACTURER'S TOLERANCES).
- 12. INSTALLATION SHALL FOLLOW MANUFACTURER RECOMMENDATIONS.
- 13. FEATURES ANTICIPATED TO BE DEMOLISHED AND/OR REMOVED ARE NOT DISPLAYED ON THIS SHEET.

ADS N-12 PIPE LENGTHS ARE MEASURED FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE ALONG THE HORIZONTAL PLANE.

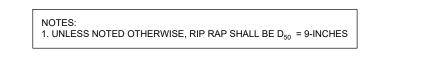
CODE COMPLIANCE

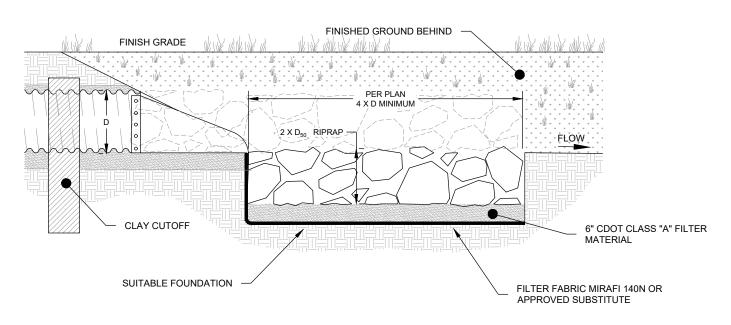
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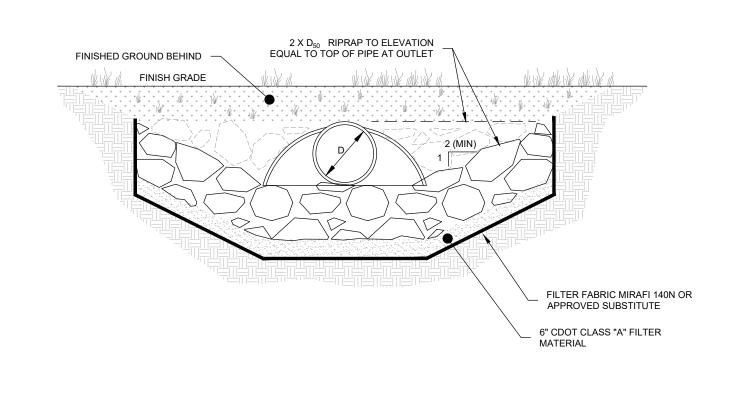


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07/06/2022







RIP RAP OUTFALL N.T.S.

# 490 East 76th Ave., Unit A Denver, Colorado 80229 Toll Free (888) 577-5650 Fax (888) 695-5450

Invoice Date: 15-Jun-20

Invoice Number: 3-47767

(please show this invoice number on all payments) Project: New Mountain Mix

Sold To: Steamboat Ski Resort 2305 Mt. Werner Steamboat Springs, CO 80487

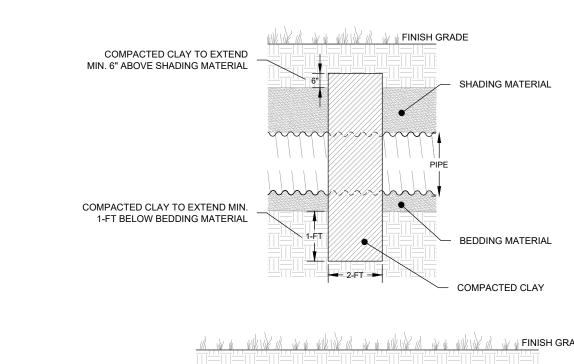
Steamboat Ski Resort 3150 Burgess Creek Road Steamboat Springs, CO 80487

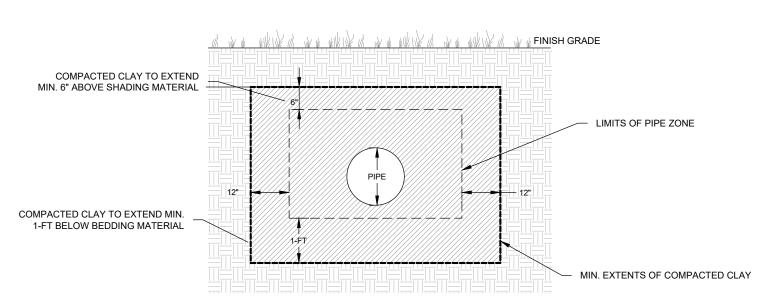
erms:	Customer P.O.	Ordered By:	Phone Number:	Customer Number:
Net 30			970-871-5604	CO155663
hipper:	Freight: Prepaid/Collect	FOB:	Sales Rep:	Date Shipped:
UPS	Prepaid	Origin	Miranda McCutchen	

Quantity Shipped							
Pricing	PLS	Bulk	Description	Variety	Price	Tota	
*** MIX #	207563 New M	1ountain N	Ліх ***				
PLS#	2.50	2.75	Poa sandbergii Bluegrass, Sandberg	High Plains			
PLS#	1.00	1.00	Koeleria macrantha Prairie junegrass	UP Sims Mesa			
PLS#	11.00	11.00	Elymus elymoides Bottlebrush squirreltail	Pueblo			
PLS#	20.00	20.00	Pascopyrum smithii Western wheatgrass	Arriba			
PLS#	15.50	15.50	Pseudoroegneria spicata ssp. spicata Bluebunch wheatgrass	Columbia			
PLS#	40.00	40.00	Triticum aestivum x Secale cereale Triticale	Quickguard			

REVEGETATION SEED MIX

# THE EXISTING CULVERT CONNECTION IS INTENDED TO BE LOCATED AND THE CONNECTION TO THE BURGESS CREEK CULVERT REMOVED AND THE NEW STORM SEWER SYSTEM CONNECTED AT THE SAME LOCATION IF CONDITIONS PERMIT. IF THE PROPOSED CONNECTION POINT IS NOT APPROPRIATE WHERE SHOWN, COORDINATE ALTERNATIVE LOCATION WITH ENGINEER FOR CONNECTION USING THIS DETAIL. +/- EX. GROUND WHERE APPLICABLE, RESTORE EX. AGGREGATE BASE COURSE TRAIL (GRAVEL ROAD) W/ EQUIVALENT SECTION — ~COMPACTED BACKFILL~ (8" MIN. THICKNESS) MIN. 1-FT ABOVE TOP OF EX. PIPE +/- TOP OF EX. PIPE ADS N-12 PIPE (SEE PLAN FOR DIAMETER) APPROX. LIMITS OF EXCAVATION MIN. 1-FT BELOW +/- 2 O'CLOCK NATIVE MATERIAL (UNDISTURBED) GRANULAR BEDDING MATERIAL 18" INCOMING PIPE: PART NO. 18N1278CMP - EX. 78-IN CORRUGATED STEEL PIPE CONNECTION TO EX. BURGESS CREEK CULVERT (IF NECESSARY)





CLAY CUTOFF WALL NOTES CLAY CUTOFFS SHALL BE INSTALLED ON STORM SEWERS AND CULVERTS ±10-FEET UPSTREAM OF ALL INLETS AND JUNCTIONS AND IN NO CASE MORE THAN 200-FEET APART. CUTOFF SHALL ALSO BE CONSTRUCTED AT CONDUIT OUTLETS WHERE NO CONCRETE TOE WALL IS REQUIRED. CLAY CUTOFFS SHALL BE INSTALLED ON WATER AND SEWER LINES PER THE REQUIREMENTS OF THE UTILITY OWNER. INSTALL AT TRANSITIONS BETWEEN PERFORATED AND SOLID PIPES. COMPACT IMPERVIOUS CLAY (COEFFICIENT OF PERMEABILITY < 5 X 10 CM/S) TO NO LESS THAN 95% DENSITY AND BETWEEN -1% AND +3% OF THE OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D698 STANDARD PROCTOR. EXTEND THE BOTTOM OF THE CLAY CUTOFF NO LESS THAN 12-INCHES BEYOND THE EXCAVATION OF THE PIPE ZONE.

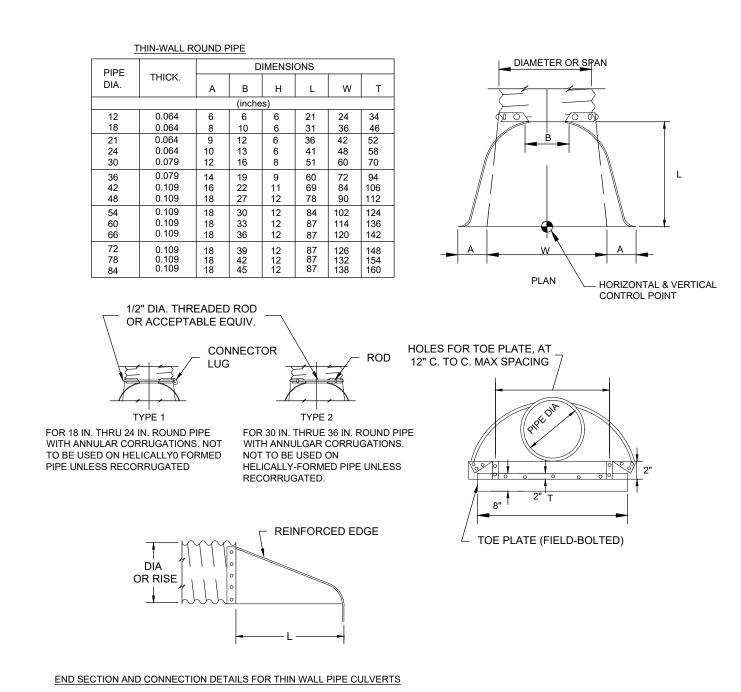
CLAY CUTOFF DETAIL

N.T.S.

## METAL END SECTION NOTES

1. DIMENSIONS OF END SECTIONS MAY VARY SLIGHTLY FROM THOSE SHOWN ON THE TABLES DUE TO DIFFERENT MANUFACTURER'S END SECTIONS FOR CMP ARCH CULVERT SHALL MATCH THE DIMENSIONS OF THE CULVERT SHOWN ON THE PLANS.

EARLY SECTIONS FOR COMPARISON COLVERT SHALL WATCH THE DIMENSIONS OF THE CULVERT SHOWN ON THE PLANS.
 GALVANIZED TOE PLATE, AS SHOWN, REQUIRED ON END SECTIONS FOR ALL THIN WALL PIPE AND SHALL BE THE SAME THICKNESS AS END SECTIONS. TOE PLATE SHALL BE FIELD-BOLTED TO END SECTION WITH 3/8" GALVANIZED BOLTS, NUTS AND WASHERS.
 GALVANIZED STEEL SHALL BE IN CONFORMANCE WITH AASHTO M 111, M 218 OR M 232.



FLARED END SECTION

NOTES:

1. ALL PVC PIPE SHALL BE SDR 35 WITH GASKETED JOINTS, U.N.O.

2. THIS DETAIL SHALL NOT BE USED FOR SANITARY SEWER APPLICATIONS. NEENAH #1970 OR APPROVED EQUAL — COMPACTED SUITABLE BACKFILL SIZE PER PLAN FLOW SLOPE MIN. 1% (U.N.O.) -

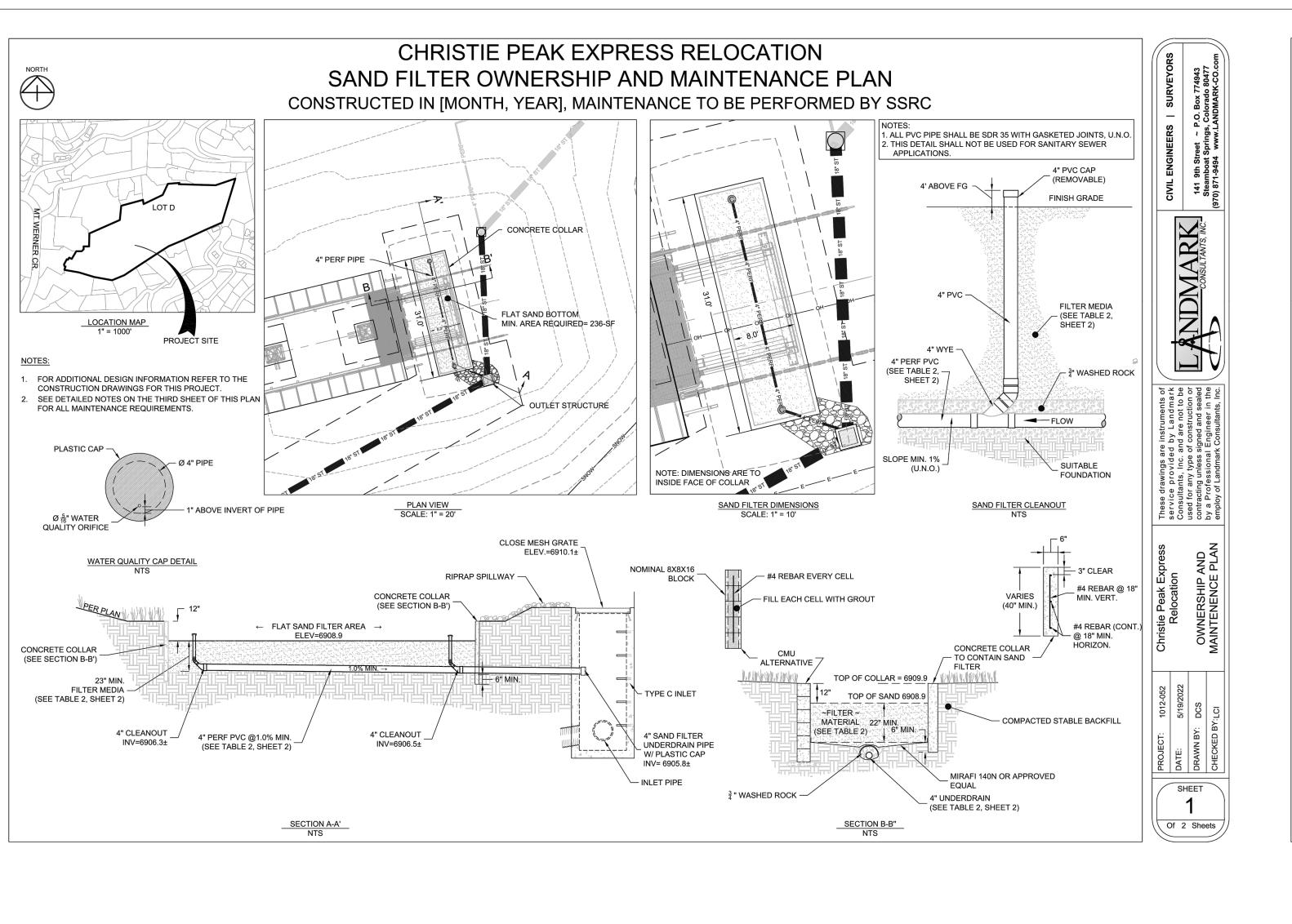
NON-TRAFFIC CLEAN-OUT

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REVIEWED 0 CODE 07/06/2022

TION DE



42"

**ELEVATION** 

CONCRETE INLET

BEAMS

13<sup>5</sup>/<sub>6</sub>" (±1/<sub>8</sub>") →

(TO FACILITATE

S4 x 7.7

BOTH SIDES

SECTION D-D

**←** 

STANDARD INLET GRATE

2829 West Howard F CDDT HQ, 3rd Floor Denver. CD 2007

Project Development Branch

Colorado Department of Transportation

2829 West Howard Place

Phone: 303-757-9021 FAX: 303-757-9868

3" x 1/4" FLAT

31/2" x 1/4" FLAT

\_ CENTERLINE OF

GRATE PARALLE

OF ROADWAY

TO CENTERLINE

BEARING

Issued by the Project Development Branch: July 31, 2019

<u>DETAIL</u>

12" CENTER

3" MIN. \_\_\_ CLEARANCE

CLEARANCE

4" CONCRETE

SLOPE AND DITCH

PAVING (REINFORCED)

(REQUIRES 1.3 CU. YD.)

MEDIAN DITCH

GRADE ----

MINININI.

STEEL GRATE QUANTITIES

2 3½" x ¼" FLAT 265%" 2.98 13

SECTION VIEW

SECTION A-A

INLET ON GRADE

<u>(FLOW FROM ONE DIRECTION)</u>

SLOPE 1/2" PER FT. MAX. SLOPE 1/2" PER FT. MAX.

SECTION A-A

Sheet Revisions

INLET AT BOTTOM OF VERTICAL CURVE

(FLOW FROM TWO DIRECTIONS)

— HEIGHT OF DIKE

2 3" x 1/4" FLAT 265/8"

DESCRIPTION LENGTH LBS WEIGHT

r► A

MEDIAN SLOPE

L→ Å

EARTHWORK ASSOCIATED WITH DIKE

SECTION B-B

INLET CONNECTED

<u>TO A CROSS PIPI</u>

DIMENSION SHALL BE SHOWN 🔑 SKEW

INLET CONNECTED TO A

SKEWED CROSS PIPE

eation Date: 07/31/19

Computer File Information

N CASES OF SKEWED PIPE, THIS

CONNECTING PIPE

ON THE PLANS —

INCLUDED IN THE COST OF THE INLET

INLET WITH DITCH PAVING

NORMAL MEDIAN DITCH GRADE

€ OF MEDIAN

\*4" CONCRETE SLOPE-

AND DITCH PAVING

\*CONCRETE SLOPE AND DITCH PAVING WILL

BE REQUIRED WHEN SHOWN ON THE PLANS.

(REINFORCED)

1.3 CU. YD.)

\_ SYMMETRICAL ABOUT €

PARALLEL

ROADWAY (



1. GENERAL PROJECT INFORMATION C. TRAFFIC CONTROL: NONE 2305 MT WERNER CIRCLE, STEAMBOAT SPRINGS, CO LEGAL DESCRIPTION: LOT D OF THE SKI HILL SUBDIVISION

B. RECEIVING WATER: BURGESS CREEK C. PROPERTY OWNER: STEAMBOAT SKI AND RESORT COMPANY (SSRC) CONTACT NAME: JIM SCHNEIDER 2305 MT. WERNER CIRCLE, STEAMBOAT SPRINGS, CO ADDRESS:

PHONE NUMBER: 970-871-5381 jschneider@steamboat.com

A. ADDRESS:

PHONE NUMBER:

D. AGENCY RESPONSIBLE FOR MAINTENANCE: STEAMBOAT SKI AND RESORT COMPANY (SSRC) CONTACT NAME: JIM SCHNEIDER ADDRESS: 2305 MT. WERNER CIRCLE, STEAMBOAT SPRINGS, CO

E. DESIGN ENGINEER: LANDMARK CONSULTANTS, INC. CONTACT NAME: DEBORAH SPAUSTAT, P.E. ADDRESS: 141 9TH STREET, STEAMBOAT SPRINGS, CO PHONE NUMBER: 970-871-9494

970-871-5381

debs@landmark-co.com PE LICENCE NUMBER: 41286

B. REVISIONS TO MAINTENANCE FREQUENCY

2. GENERAL FACILITY DESCRIPTION THIS EACH ITY IS A SAND FILTER POND THAT WILL PROVIDE WATER OLIALITY TREATMENT FOR THE WATER QUALITY CAPTURE VOLUME (WQCV). THE FACILITY HAS BEEN ADOPTED AND APPROVED BY SSRC AS PART OF THE CHRISTIE PEAK EXPRESS PROJECT. IT WILL RECEIVE RUNOFF FROM 0.83 ACRES AND WILL OCCUPY A PARCEL OF 0.01 ACRES THAT WILL BE USED TO PROVIDE VOLUME BASED WATER QUALITY TREATMENT, MAINTENANCE, & ACCESS OPERATIONAL ACTIVITIES.

3. INSPECTION & MAINTENANCE FREQUENCY & PROCEDURE A. THE FOLLOWING ITEMS SHOULD BE INSPECTED:

TABLE 1: MAINTENANCE ACTIVITY/FREQUENCY

ACTIVITY	REQUIRED FREQUENCY
INSPECTION TO CONFIRM INFILTRATION RATE AFTER RAINFALL; MAINTAIN AS NECESSARY. DEBRIS AND LITTER REMOVAL	TWICE ANNUALLY. ONE TIME TO OCCUR IF SPRING AFTER SNOWMELT FROM CONTRIBUTING BASIN IS COMPLETE.
MOWING, IRRIGATION	NA
INSPECTION OF UNDERDRAIN VIA CLEAN-OUT; REMOVE SEDIMENT/DEBRIS IF PRESENT	WHEN PONDING LASTS LONGER THAN 24 HOURS
SCARIFY TOP 2" OF SAND WITH RAKE	WHEN PONDING LASTS LONGER THAN 24 HOURS AND UNDERDRAIN IS NOT CLOGGE
REPLENISH TOP 3" OF FILTER MEDIA WITH CLEAN COARSE SAND (AASHTO C-33 OR CDOT CLASS C FILTER MEDIA) TO THE ORIGINAL ELEVATION	AFTER SCARIFICATION 3 TIMES
SEDIMENT REMOVAL AND REPLACEMENT OF MEDIA. SEE TABLE 2 FOR MEDIA SPECIFICATIONS.	WHEN PONDING LASTS 24 HOURS, UNDERDRAIN IS NOT CLOGGED AND SCARIFICATION DOES NOT RESTORE INFILTRATION

D. THE FACILITY DOES REQUIRE CONFINED SPACE ENTRY PROCEDURES FOR ORIFICE CAP NSPECTION AND MAINTENANCE

E. DEWATERING AND WATER CONTROL: NA

F. SEDIMENT, DEBRIS, & TRASH REMOVAL & DISPOSAL: REMOVAL SHALL BE CONDUCTED IF THERE IS PRESENCE OF TRASH OR DEBRIS AT INSPECTION. SEDIMENT AND DEBRIS SHALL BE REMOVED MANUALLY USING A SHOVEL OR RAKE AND DISPOSED OF AT A LICENSED FACILITY. THE LONGEST DISTANCE BETWEEN THE EDGE OF AN ACCESS ROAD AND THE FAR CORNER OF A STRUCTURE REQUIRING SEDIMENT REMOVAL IS IXI FEET

G. VEGETATION MANAGEMENT SEE SECTION 4 OF THE NOTES ON THIS SHEET.

H. WETLAND AREAS ARE NOT ANTICIPATED. SEE SECTION 8.0 OF THE NOTES ON THIS SHEET.

DESCRIBE ADDITIONAL REQUIRED MAINTENANCE PROCEDURES AND FREQUENCIES.-NA SEE TABLE 1 J. MATERIALS TESTING OF SEDIMENT REMOVED FROM SITE IS NOT REQUIRED.

4. EQUIPMENT, STAFFING, AND VEGETATION MANAGEMENT

A FOLIPMENT REQUIRED: MAY INCLUDE BUT IS NOT LIMITED TO MOWERS, PUMPS, HOSES, SHOVELS, BUCKETS, RAKES, EXCAVATORS [NOTE REACH REQ'D], WEED KILLERS, GENERATORS, SPRAYERS, DATA LOG/INSPECTION REPORTS.

B. STAFFING: A MINIMUM OF 1 STAFF MEMBER IS REQUIRED TO MAINTAIN TREATMENT C. SEED: NA

D. MOWING: NA.

E. WEEDS & UNDESIRABLE VEGETATION: NOXIOUS WEEDS AND OTHER UNDESIRABLE VEGETATION SHALL BE REMOVED BY RAKING SAND FILTER.

5. SNOW AND ICE CONTROL

A. FACILITY IS NOT LOCATED WITHIN A SNOW STORAGE AREA AS DEFINED IN THE

## 6. RIGHT-OF-WAY, ADJACENT OWNERSHIP, & ACCESS

A. RIGHT-OF-WAY DESCRIPTION: N/A B. ADJACENT OWNERSHIP: N/A

C. ACCESS INFORMATION AND DETAILS: THE FACILITY IS ACCESSED VIA SKI AREA ACCESS

D. MAINTENANCE OPERATIONS WILL NOT IMPACT OR OBSTRUCT RIGHT-OF-WAY AND A RIGHT-OF-WAY PERMIT IS NOT REQUIRED.

7. HYDRAULIC DESIGN

A. FLOW RATES (CFS): WQ EVENT: 2-YEAR: B. VOLUMES, DEPTHS, & WSELS:

SAND FILTER TOP 6908.9 4" PERF PIPF OUTLET INV. NA 6905.8 0.5-FT 1.0-FT C. WQCV DRAIN TIME = 12 HOURS

EURV DRAIN TIME = NA

### 8. SENSITIVE AREAS, WETLANDS, & PERMITS THE SITE HAS NO KNOWN WETLANDS.

9. MISCELLANEOUS INFORMATION

TOP OF BANK

MAINTAIN RIPRAP TO HEIGHT OF CREST

DROP HEIGHT

PLACE FILTER FABRIC OR — 6" BEDDING MARERIAL OR

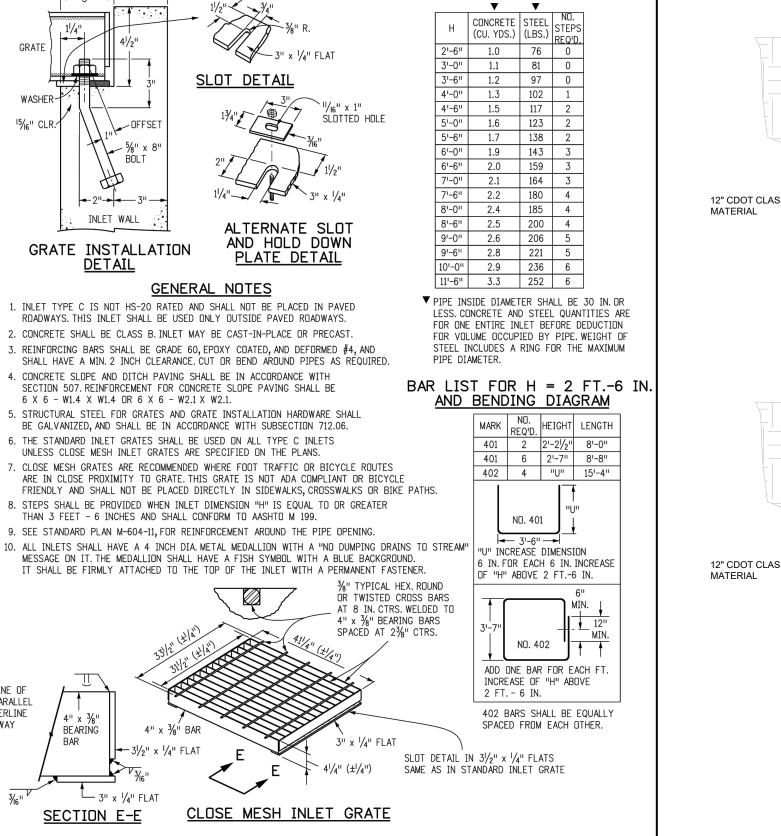
BOTH BENEATH RIPRAP

A. PROJECT SURVEY: EXISTING CONDITIONS AND TOPOGRAPHIC INFORMATION PER CITY GIS DATA AND SUPPLEMENTED WITH LANDMARK CONSULTANTS, INC. ARCHIVED SURVEY FIELD DATA PROJECT BENCHMARK: "X" ON CONCRETE COLLAR OF INLET STRUCTURE, ELEV=6910.60',

B. COORDINATE SYSTEM: THE COORDINATE SYSTEM IS COLORADO COORDINATE SYSTEM, NORTH ZONE, NAD83 (2011), NAVD88, COMBINE SCALE FACTOR: (N)1415866.11(E)2636677.13. 1.000368966

C. POND MATERIALS: SEE TABLE 2

	TABLE 2: PON	ID MATERIALS		
			MASS PERCENT PASSING SQUARE MESH SIEVE	
		SIEVE SIZE	CLASS B	CLASS C
		37.7mm (1.5")	100	
FILTER	CDOT FILTER MATERIAL	19.0 mm (0.75")		100
MATERIAL	(CLASS B OR C)	4.75 mm (No. 4)	20-60	60-100
		1.18 μm (No. 16)	10-30	
		300 μm (No. 50)	0-10	10-30
		150 μm (No. 100)		0-10
		75 μm (No. 200)	0-3	0-3
UNDERDRAIN		MAX. SLOT	MIN. OPEN AREA	
PIPE	PIPE Ø AND TYPE	WIDTH (in.)	(PER ft.)	
111.6	4" SLOTTED PVC	0.032	1.90 in <sup>2</sup>	

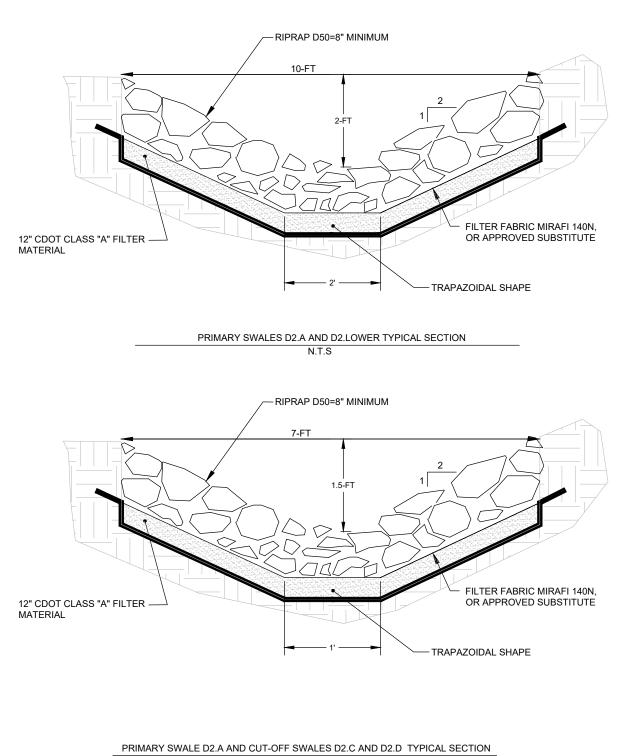


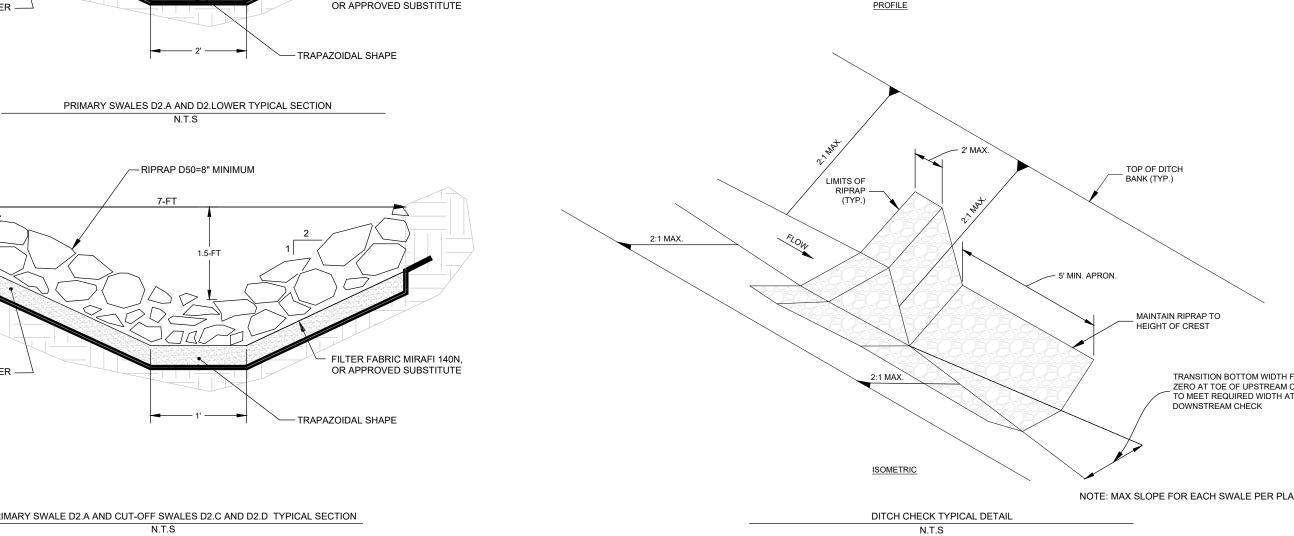
STANDARD PLAN NO.

M-604-10 Standard Sheet No. 1 of 1

Project Sheet Number:

QUANTITIES FOR ONE INLET





RIPRAP HEIGHT = 1/2 DITCH

DEPTH AT CREST

NOTES: 1. RIPRAP SHALL BE CRUSHED, ANGULAR, WASHED ROCK HAVING THE SMALLEST DIMENTIONS AT LEAST 3" AND A LARGEST DIMENTISON NO MORE THAN 12" UNLESS OTHERWISE SPECIFIED AND APPROVED . INCREASE ROCK SIZE BY 25% IF ROUNDED ROCK MUST BE USED. RIPRAP SHALL HAVE A MINIMUM SPECIFIC GRAVITY OF 2.5.

3. FILTER FABRIC AND BEDDING SHALL MEET THE REQUIREMENTS F THE CITY'S STANDARD SPECIFICATIONS. 4. INSTALLATION SHALL BE PER THE CITY'S STANDARD

SPECIFICATIONS.

MAINTAIN RIPRAP TO

HEIGHT OF CREST

TRANSITION BOTTOM WIDTH FROM ZERO AT TOE OF UPSTREAM CHECK
TO MEET REQUIRED WIDTH AT DOWNSTREAM CHECK

07/06/202

SHEET

AND

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### ENGINEERED SURFACE DRAINAGE PRODUCTS

GENERAL

PVC SURFACE DRAINAGE INLETS SHALL BE OF THE CURB INLET STRUCTURE TYPE AS INDICATED ON THE CONTRACT DRAWINGS AND REFERENCED WITHIN THE CONTRACT SPECIFICATIONS. THE **DUCTILE IRON FRAME**, **GRATE AND HOOD** FOR EACH OF THESE STRUCTURES ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SURFACE DRAINAGE INLET AND SHALL BE FURNISHED BY THE SAME MANUFACTURER. THE CURB INLET STRUCTURE SHALL BE AS MANUFACTURED BY NYLOPLAST A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC. OR PRIOR APPROVED EQUAL.

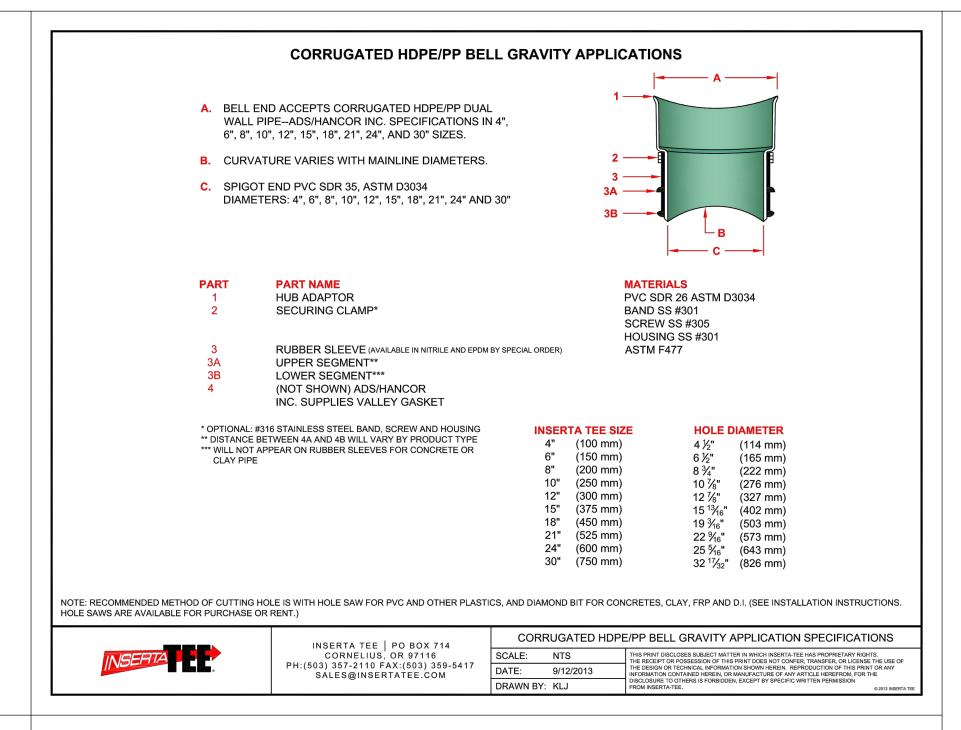
MATERIALS
THE CURR IN

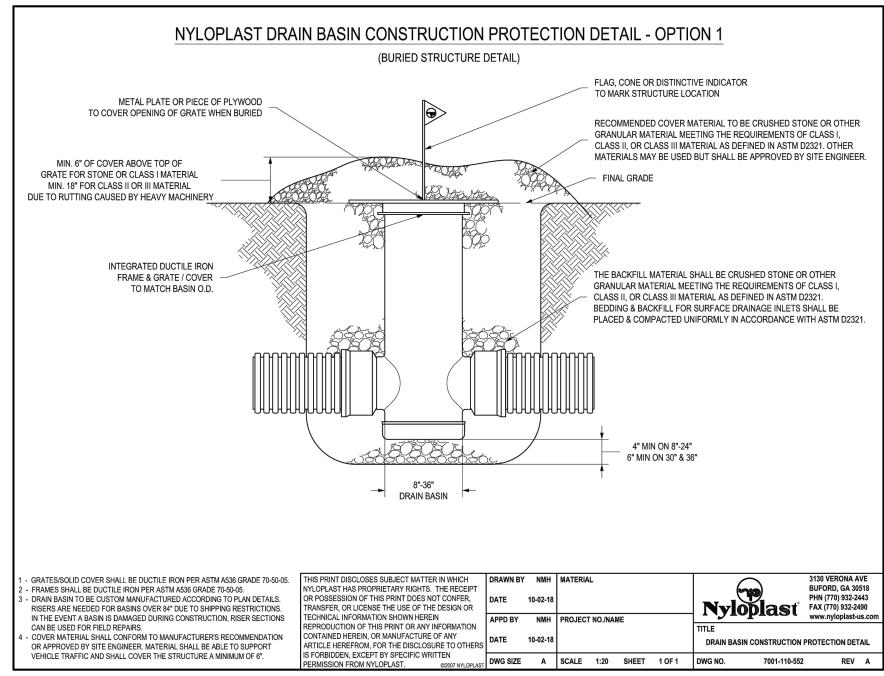
THE CURB INLET STRUCTURE REQUIRED FOR THIS CONTRACT SHALL BE MANUFACTURED FROM PVC PIPE STOCK, UTILIZING A THERMO-MOLDING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FORM PVC PIPE STOCK AND FORMED TO PROVIDE A WATERTIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR JOINTS FOR DRAIN AND SEWER PLASTIC PIPE USING FLEXIBLE ELASTOMERIC SEALS. THE FLEXIBLE ELASTOMERIC SEALS SHALL CONFORM TO ASTM F477. THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODY OF THE STRUCTURE. THE RAW MATERIAL USED TO MANUFACTURE THE PIPE STOCK THAT IS USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL CONFORM TO ASTM D1784 CELL CLASS 12454.

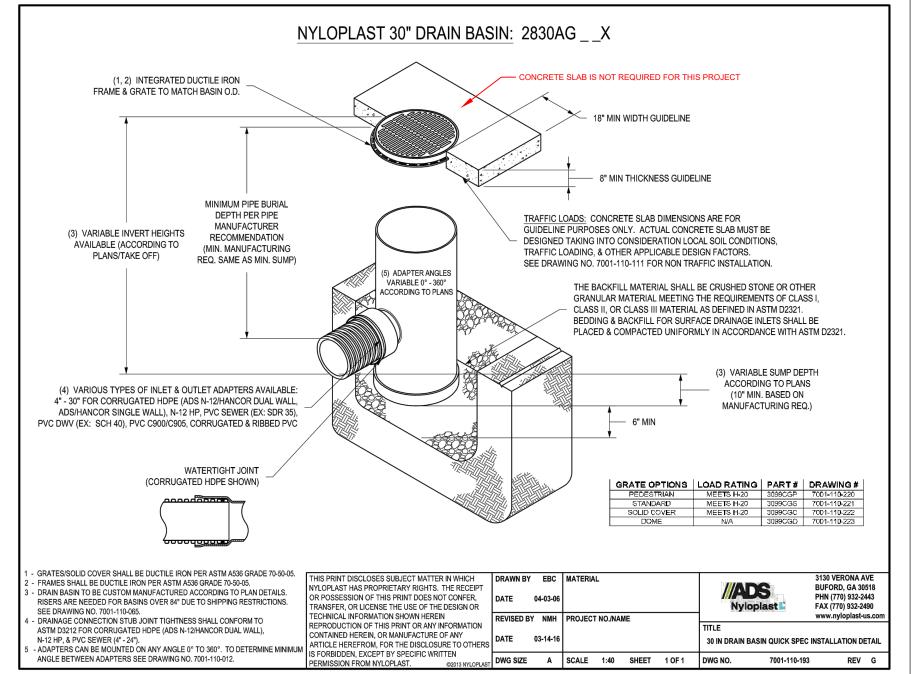
THE GRATE, FRAME AND HOOD FOR ALL CURB INLET STRUCTURES SHALL BE DUCTILE IRON AND SHALL BE MADE SPECIFICALLY FOR EACH SO AS TO PROVIDE A ROUND BOTTOM FLANGE THAT CLOSELY MATCHES THE DIAMETER OF THE PVC STRUCTURE BODY. THE GRATE, FRAME AND HOOD SHALL BE CAPABLE OF SUPPORTING H-20 WHEEL LOADING FOR TRAFFIC AREAS. THE HOOD SECTION WILL HAVE A SOLID BACK AND BE ADJUSTABLE BY USE OF THREE (3) LOCKING HEX HEAD BOLTS. THE METAL USED IN THE MANUFACTURE OF THE CASTINGS SHALL CONFORM TO ASTM A536 GRADE 70-50-05 FOR DUCTILE IRON.

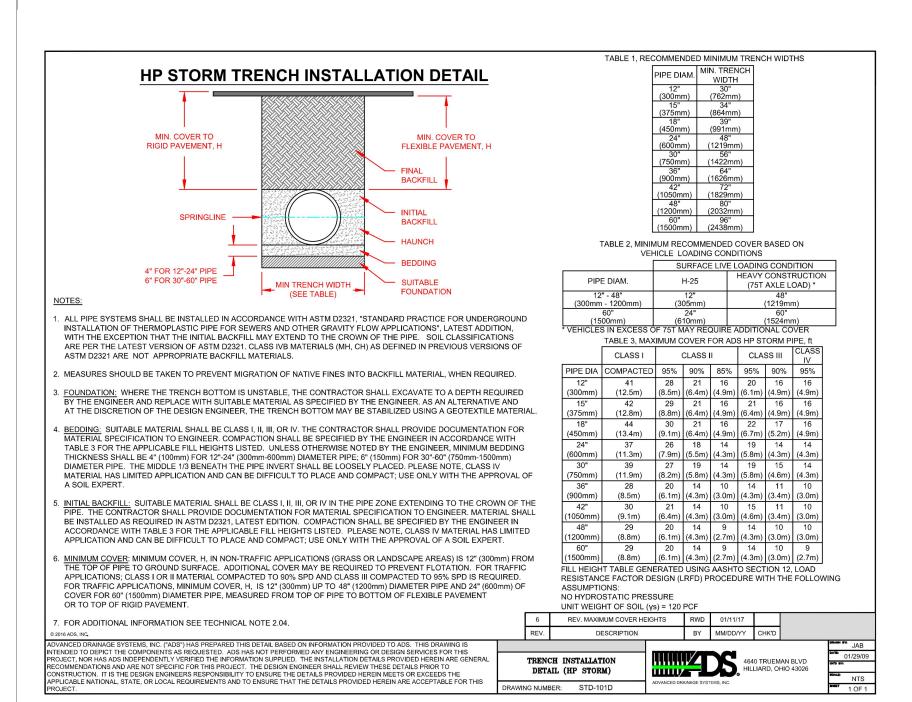
INSTALLATION

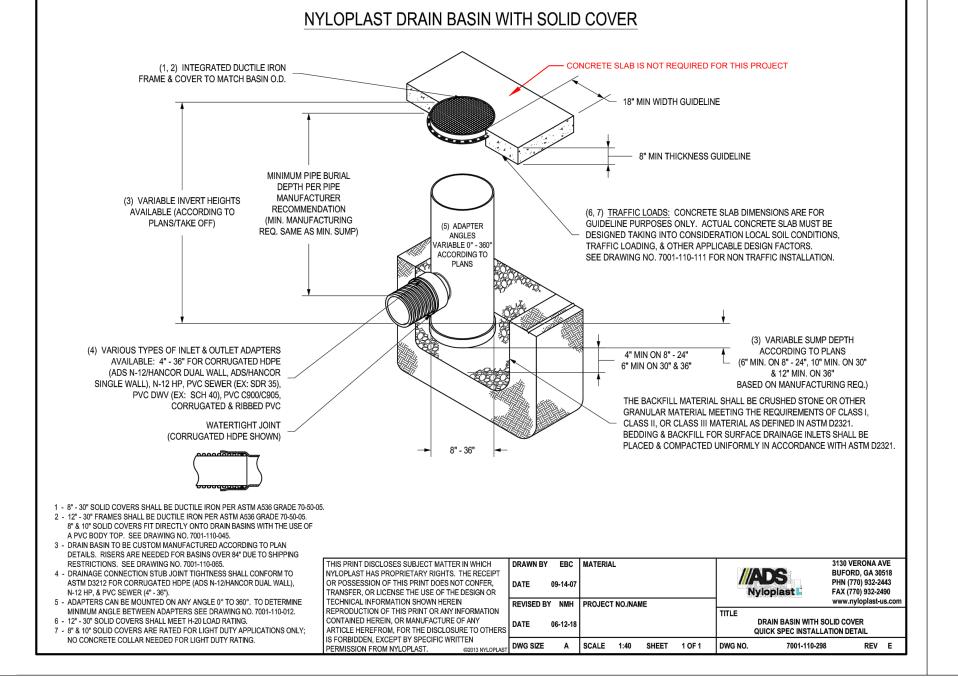
THE SPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED USING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS 1, CLASS 2, OR CLASS 3 MATERIAL AS DEFINED IN <u>ASTM D2321</u>. BEDDING AND BACKFILL FOR THE CURB INLET STRUCTURE SHALL BE PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH <u>ASTM D2321</u>. THE CURB INLET STRUCTURE BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE REQUIRED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR H-20 LOAD RATED INSTALLATIONS, A CONCRETE RING WILL BE POURED UNDER THE FRAME, GRATE, AND HOOD. THE CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS. FOR OTHER INSTALLATION CONSIDERATIONS SUCH AS MIGRATION OF FINES, GROUND WATER, AND SOFT FOUNDATIONS REFER TO ASTM D2321 GUIDELINES.











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