COMMISSIONERS COURT



REQUEST FOR AGENDA PLACEMENT FORM Submission Deadline - Tuesday, 12:00 PM before Court Dates SUBMITTED BY:David Disheroon TODAY'S DATE: 01/03/2022 DEPARTMENT: Public Works SIGNATURE OF DEPARTMENT HEAD: REQUESTED AGENDA DATE: 01/10/2022

SPECIFIC AGENDA WORDING: Consideration of Construction Plans for Mansfield RV Park to be located at 12601 East FM 917, in Precinct #3- Public Works Department

PERSON(S) TO PRESENT ITEM: David Disheroon								
SUPPORT MATERIAL: (Must enclose supporting documentation)								
TIME: 10 minutes (Anticipated number of minutes needed to disc	ACTION ITEM: X WORKSHOP uss item) CONSENT: EXECUTIVE:							
	PURCHASING DEPARTMENT: PUBLIC WORKS:X							
**********This Section to be Complet	ed by County Judge's Office********							
ASSIGNED	D AGENDA DATE:							
REQUEST RECEIVED BY COU	NTY JUDGE'S OFFICE							
COURT MEMBER APPROVAL	Date							

CIVIL CONSTRUCTION SITEWORK PLANS FOR

12601 E. FM 917

R.V. PARK

CITY OF ALVARADO, JOHNSON COUNTY, TEXAS M. D. DICKEY SUVEY, ABSTRACT NO. 195

PROJECT DIRECTORY

ELECTRIC
UNITED COOPERATIVE SERVICES
2601 S. BURLESON BLVO
ALVARADO, TEXAS 76097
CONTACT: PHIL SILVA
PH. 817–556–4070

GAS SOUTHWESTERN GAS PIPELINE, INC. DEVON PH. 1-800-214-2154

TELEPHONE/CABLE
AT&T
1116 HOUSION STREE #1410
FORT WORTH, TEXAS 76102
CONTACT: KIDDER OWENS
PH. 817-338-6822

OWNER:

MATT ST. CLAIR 12601 E FM917, ALVARADO, TEXAS PH. 214-580-6500

JOHNSON COUNTY SPECIAL UTILITY DISTRICT 2849 S. HWY 171 CLEBURNE, TEXAS 76033 CONTACT: NAN BISE PH. 817-760-5200

JOHNSON COUNTY
PUBLIC WORKS
1 NORTH MAIN STREET
SUITE 305
CLEBURNE, TEXAS 76033
CONTACT: DAVID DISHEROON
PH. 817–7556–6380



VICINITY MAP

NOT TO SCALE

AUGUST, 2021

CONSTRUCTION PLANS

SHEET	TITLE
C-01.00	COVER SHEET
C-01.01	SURVEY
C-02.00	GENERAL NOTES
C-03.00	EXISTING CONDITIONS & DEMOLITION PLAN
C-04.00	DIMENSION AND PAVING PLAN
C-05.00	GRADING PLAN
C-06.00	EXISTING DRAINAGE AREA MAP
C-06.01	PROPOSED DRAINAGE AREA MAP
C-07.00	DETENTION POND PLAN & PROFILE
C-08.01	WATER PLAN
C-08.02	SEPTIC SEWER PLAN
C-09.00	EROSION CONTROL PLAN
C-09.01	EROSION CONTROL DETAILS
C-10.00	RIP RAP DETAILS & CALCS
C-10.01	CIVIL DETAILS
C-10.02	STORM DETAILS 1

NOTE: REFER TO BECCA GRASSL PLANS FOR SEPTIC SEWER DESIGN. LAYOUT ON THESE PLANS ARE FOR REFERENCE ONLY. Winkelmann & Associates, Inc.





COVER SHEET 12601 E FM 917 .VARADO, TX 76135

C-01.00

*Texasen

GENERAL PAYING NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS AND SPECIFICATIONS. WHERE
 COUNTY DETAILS ARE UNAVAILABLE OR UNCLEAR, STATE SPECIFICATIONS SHALL APPLY, AND STATE
 SPECIFICATIONS SHALL TAKE PRECEDENCE IN STATE RIGHT—OF—WAY(S).
- 2. CONTRACTOR SHALL PROUBE TRAFFIC CONTROL PLAN. AT LEAST 48 HUBBE PRIDE TO ANY WORK IN A CONN'T SHIPE TRAFFIC CONTROL MEASURES SHALL CONFROM TO THE CONTROL AND STATE WORK ACTIVITY THAT THESE PLACE OF ON ADJUSTIC TO ANY COUNTRY SHEET OR ROOMWY. THE CONTROL MEASURES SHALL BE INSTALLED FOR MAY WORK ACTIVITY THAT TAKES PLACE ON OR ADJUSTICT TO ANY COUNTY STREET OR ROOMWY. THE CONTROL PLAN TO BE DESIGNED AND SEALED BY AN ENGINEER UCCENSED IN THE STATE.
- 3. CONTACT TRAFFIC ENGINEERING DIVISION AT LEAST 48 HOURS PRIOR TO WORK REQUIRING THE REMOVAL OR RELOCATION OF TRAFFIC SIGNS, TRAFFIC CONTROL EQUIPMENT OR OTHER TRAFFIC CONTROL APPURTENANCES
- 4. CONTRACTOR SHALL FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES BEFORE CONSTRUCTION, CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT INS OWN EXPENSE.
- 5. THE CONTRACTOR SHALL SUBMIT A JOINT LAYOUT PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF PAVEMENT CONSTRUCTION.
- 6. ALL JOINTS SHALL EXTEND THROUGH THE CURB.
- 7. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5 FEET.
- 8. ALL JOINTS, INCLUDING EXPANSION JOINTS WITH REMOVABLE TACK STRIPS, SHALL BE SEALED WITH JOINT SEALANT.
- 9. TRANSVERSE JOINTS MAY BE SKEWED OR ADJUSTED BY SHIFTING TO MEET MANHOLES, INLETS, OTHER STRUCTURES, ETC.
- ALL REINFORCING STEEL, SHALL BE NEW DOMESTIC BILLET STEEL CONFORMING TO ASTM A-615, GRADE 50, AND SHALL BE SUPPORTED BY BAR CHAIRS.

SITE GRADING GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH COUNTY STANDARDS, SPECIFICATIONS, AND DETAILS. STATE SPECIFICATIONS SHALL TAKE PRECEDENCE IN STATE RIGHT-OF-WAY(S).
- 2. VEGETATION, DEBRIS, AND TOPSOIL CONTAINING ORGANIC MATERIALS SHOULD BE CLEARED AND GRUBBED FROM THE ENTIRE SITE (APPROX. DEPTH OF 8 INCHES) AT THE BEGINNING OF EARTHWORK.
- 3. REFERENCE CIVIL SPECIFICATIONS AND PLAN SHEETS FOR PAVEMENT SUBGRADE PREPARATION REQUIREMENTS, REFERENCE ARCHITECTURAL SPECIFICATIONS FOR BUILDING PAD PREPARATION.
- PROPOSED CONTRUES AND SPIT ELEVATIONS SHOWN IN PAREL AREAS REFLECT TOP OF PAREMENT SUPPLEC OF DO O'CHRO AT CHRO LIME. THE JUNET OF FAREMORN IN PAREM AREAS IS THE BOTTOM OF PAREMENT, PROPOSED CONTOURS SHOWN OUTSIDE PAYED AREAS ARE THE EXACT LIMITS OF GRADING.
- 5. THE CONTRACTOR SHALL FIELD VERFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING UTILITIES PROBED TO START OF EARTHWORK AND SHALL NOTIFY THE ARCHITECT AND EXHIBER OF ANY COMPLICIES DISCOVERED, CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES (SHOWN OR NOT SHOWN) WITHIN SCOPE OF CONSTRUCTION. IF ANY EXISTING UTILITIES ARE DAMAGED, THE CONTRACTOR SHALL REPLACE THEM AT HIS OWN EXPENSE.
- 6. THE CONTRACTOR SHALL MANIAN ADDIVINE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL USE SILT FERCES (OR OTHER METHOD APPROVED BY THE COUNTY) AS REQUIRED TO PREVENT SILT AND CONSTRUCTION DEBMS FROM FLOWING CONTO ADJACENT PROPERTIES. CONTRACTOR SHALL COUNTY WITH ALL APPLICABLE FEDERAL, STATE, OR LOCAL EROSION. CONSERVING AND SILT DON COMMETCION OF CONTRACTOR SHALL REMOVE ALL TEMPORARY EROSION CONTROL DEVICES UPON COMMETCION OF PERMANENT DRAINAGE FACILITIES AND THE ESTABLISHMENT OF A STAND OF GRASS OF OTHER ROBUST TO PREVENT RECISION.
- 7. ROUGH GRADING UNDER PROPOSED PAVING AND ALL GENERAL SITE ROUGH GRADING SHALL B BROUGHT TO WITHIN +/- 0.1 FOOT. ROUGH GRADING ELEVATIONS IN PAVED AREAS ARE TO BOTTOM OF PAVEMENT, SEE LANDSCAPE PLANS FOR ADDITIONAL GRADING ELEVATIONS IN LANDSCAPED AREAS.
- 8. FOR ALL WORK WITHIN STATE OR COUNTY RIGHT OF WAY, THE CONTRACTOR STALL.

 A NOTIFY THE STATE OR COUNTY A MINIMUM OF 2 WORKING DAYS PRIOR TO BEGINNING
 CONCRETECTION WAS HOW ALL MECENTRY
 CONTRACTOR STATE.

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 MOSTE FROM TRUDOS OR OTHER COUNTY OF THE OWN AND OR EXCAVATION
 WASTE FROM TRUDOS OR OTHER COUNTY OF THE WORK ALL DEBISS AND
 EXCESS MATERIAL SHALL BE REMOVED FROM THE RIGHT OF WAY.

 LIGHTS, AND BARROLDES AS RECORDED BY THE COUNTY AND IN ACCORDANCE WITH THE STATE
 MUTCO. THE CONTRACTOR SHALL BE SOLETY RESPONSIBLE FOR AND HOLD HARMESS THE
 STATE, THE COUNTY, AND THE OWNER FROM ANY CLAMB FOR DAMAGE DOWN TO EXISTING
 PRIVATE PROPERTY, PUBBLE UNITED, OR TO THE PROPERTY OF DOWN TO EXISTING
 PRIVATE PROPERTY, PUBBLE DUTIES, OR TO THE PROPERTY OF THE COUNTY AND THE OWNER TO THE COUNTY AND THE STATE.
- THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL
 CONTROL DUST BY SPRINKLING WATER, OR BY OTHER MEANS APPROVED BY THE ARCHITECT, ENGINEER,
 AND THE OWNER, AT NO ADDITIONAL COST TO THE OWNER.
- 10. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ANY EXISTING STRUCTURES, FENCES, DEBRIS, OR TREES ON SITE, AND SHALL COORDINATE ALL REMOVAL WITH THE GENERAL CONTRACTOR. NO TREES OTHER TERMS SHALL BE REMOVED WITHOUT THE APPROVAL OF THE ARCHITECT, ENGINEER, AND OWN ALL TREES NOT REMOVED SHALL BE GUARDED AND PRESERVED DURING CONSTRUCTION. FO DAMAGE, THE EMISTING TREE WILL BE REPLACED (FOUND. CALPER) AT THE CONTRACTOR'S EXPENSE.
- 11. THE CONTRACTOR SHALL ESTABLISH VEGETATION ON ALL DISTURBED AREAS OF THE SITE, SUPPLY OF WATER AS NEEDED FOR VEGETATION GROWTH SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 12. ALL EXCAVATING IS UNCLASSIFIED AND SHALL INCLUDE ALL MATERIALS ENCOUNTERED. UNUSABLE EXCAVATED MATERIAL AND ALL WASTE RESULTING FROM SITE CLEARING AND GRUBBING SHALL BE DISPOSED OF OFF SITE BY THE GRADING CONTRACTOR AT HIS EXPENSE.
- 13. BEFORE ANY EARTHMORK IS DONE, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF PAYEMENT AND OTHER TIEMS ESTABLISHED BY THE PLANS. THE CONTRACTOR SHALL PROTECT AND PRESERVE CONTROL POINTS AT ALL TIMES DURNE THE CORDER OF THE PROJECT. THE GRADING CONTRACTOR SHALL PROVIDE ALL MECESSARY ENGINEERING AND SURVEYING FOR LINE AND GRADE CONTROL POINTS BELIETED LEARTHMORK.
- 14. THE CONTRACTOR SHALL SALVAGE AND PROTECT ALL EXISTING POWER POLES, SIGNS, MANHOLES, TELEPHONE RISERS, WATER VALVES, ETC. DURING ALL CONSTRUCTION PHASES.

WATER GENERAL NOTES

- ALL CONSTRUCTION MATERIALS AND PROCEDURES SHALL ADHERE TO JOHNSON COUNTY SPECIAL UTILITY DISTRICT STANDARD DETAILS AND SPECIFICATIONS AND THE STATE STANDARD SPECIFICATIONS FOR PUBLIC WORKER CONSTRUCTION. ALL MATERIALS SHALL BE LL. LISTED AND FACTORY MUTUAL APPROVED UMLESS DIRECTED OTHERWISE BY THE ARCHITECT, ENGINEER, OR THE JOHNSON COUNTY SPECIAL UTILITY DISTRICT.
- THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND ARCHITECT MANEDIATELY IF A CONFLICT IS DISCOVERED.
- J. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN, COORDINATING THE HORIZONTAL AND WERICAL LOCATION OF ALL UTILITY SERVICES ENTERING THE BUILDING AND/OR CROSSING OTHER UTILITIES.
- 4. THE SITE UTILITY CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE UTILITIES ALL PIPE, STRUCTURES, AND ITTIMG INSPECTED BY THE JOHNSON, COUNTY SPECIAL UTILITY DISTRICT WHATE DEPARTMENT AND/OR CODE ENGOGEMENT INSPECTOR PRIOR TO BEING COVERED. THE INSPECTOR MUST ALSO BE PRESENT DURING DISMYECTION AND PRESSIONE TESTING OF ALL MAINS.
- 5. ALL WATER MAINS ARE TO BE AS SHOWN ON THE DRAWINGS, WATER MAINS SHALL HAVE A MIN. COVER OF 42 INCHES FROM FINISHED GRADE TO TOP OF PIPE AND SHALL BE BEDDED AND BHORFILED IN ACCORDANCE WITH JOHNSON COUNTY SPECIAL UILITY DISTRICT STANDARD DETRIK. ALE FIRE HYDRANTS, BENDS AND PIPE EXINS SHALL BE BLOCKED WITH CONCRETE PER JOHNSON COUNTY SPECIAL UTILITY DISTRICT STANDARD CETAILS.
- 6. ALL WATER SERVICES 3 INCHES AND SMALLER SHALL BE TYPE 'K' COPPER
- ALL FIRE HYDRANTS SHALL BE PRIMED AND PAINTED WITH A MACHINE IMPLEMENT GRADE ENAMEL PAINT. THE HYDRANT BODY AND BONNET SHALL BE PAINTED IN ACCORDANCE JOHNSON COUNTY SPECIAL UTILITY DISTRICT STANDARDS.
- 8. ALL APPURTENANCES USED FOR FIRE PROTECTION SHALL CONFORM TO THE CURRENT JOHNSON COUNTY SPECIAL UTILITY DISTRICT FIRE DEPARTMENT STANDARDS AND SPECIFICATIONS.
- 10. FIRE SPRINKLER LINE SHALL BE SIZED AND INSTALLED BY A STATE LICENSED FIRE SPRINKLER CONTRACTOR
- 11. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE TRENCH SAFETY DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A TREACH EXCLAIMTION PROTECTION PLAN PREPARED, CONSTRUCTION IN ELECALATIONS DEEPER THAN 5 FEET, PROPE TO START OF CONSTRUCTION. SAID SAFETY PLAN SHALL CONFORM TO ALL APPLICABLE FEDERAL AND STATE LAWS REGARDING EXCAVATING AND TREACHING OPERATIONS.
- 12. THE JOHNSON COUNTY SPECIAL UTILITY DISTRICT WILL INSPECT ALL "PUBLIC" CONSTRUCTION. THE CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.

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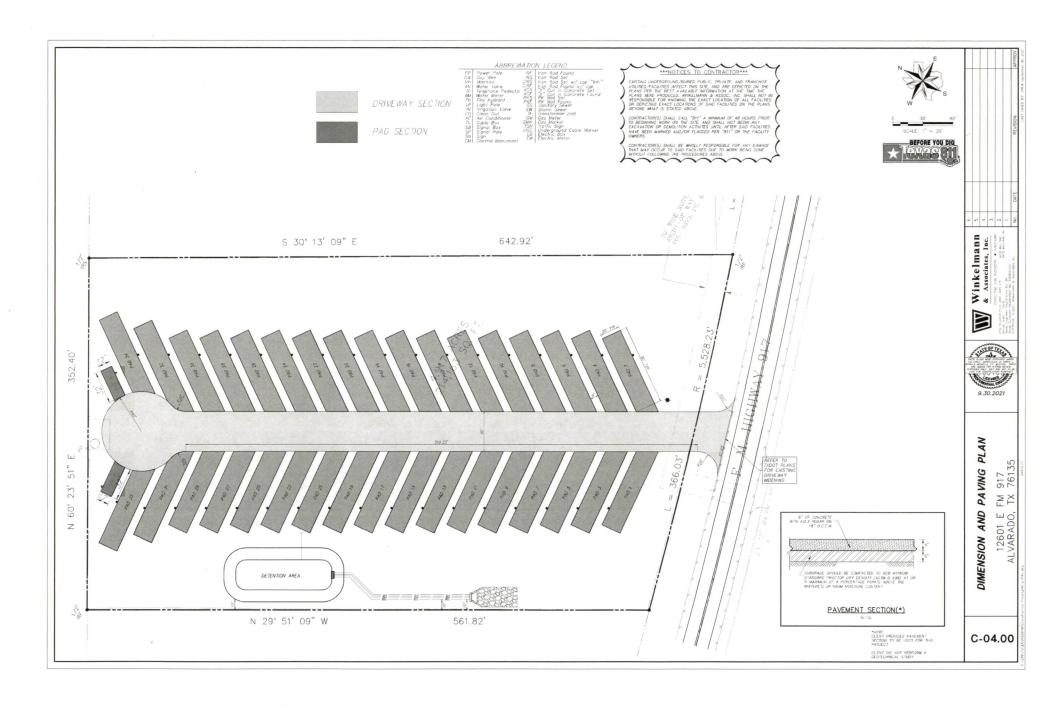


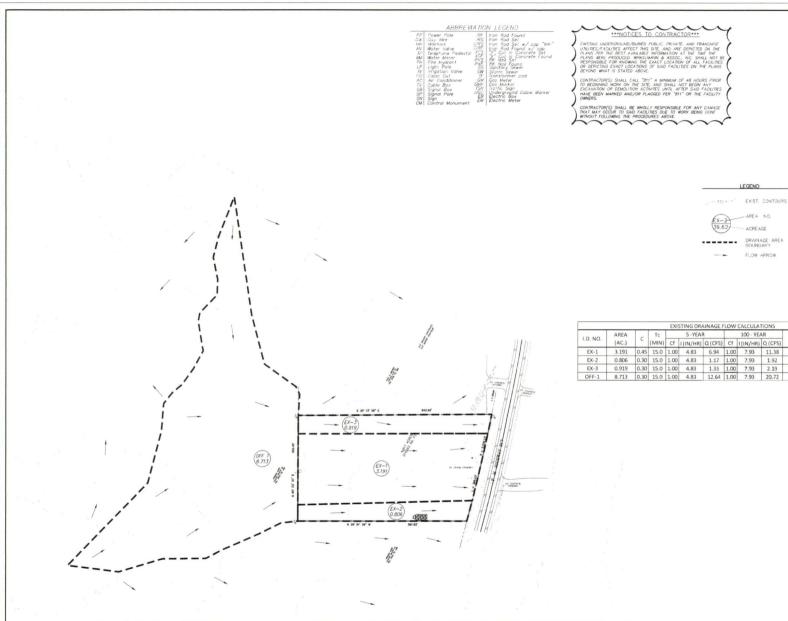
NOTES 917 ΥX

12601 E .VARADO, GENERAL

C-02.00

NOTE: THE GENERAL NOTES APPLY TO ALL SHEETS.









LEGEND

- 730 - - EXIST. CONTOURS



EXISTING DRAINAGE FLOW CALCULATIONS										
AREA	AREA		Tc	5-YEAR		100 - YEAR		AR	50111151175	
I.D. NO.	.D. NO. (AC.)	C	(MIN)	Cf	I (IN/HR)	Q (CFS)	Cf	I (IN/HR)	Q (CFS)	COMMENTS
EX-1	3.191	0.45	15.0	1.00	4.83	6.94	1.00	7.93	11.38	
EX-2	0.806	0.30	15.0	1.00	4.83	1.17	1.00	7.93	1.92	
EX-3	0.919	0.30	15.0	1.00	4.83	1.33	1.00	7.93	2.19	
orr a	0.743	0.20	45.0	4 00	4.00	40.04		7 00	20.72	



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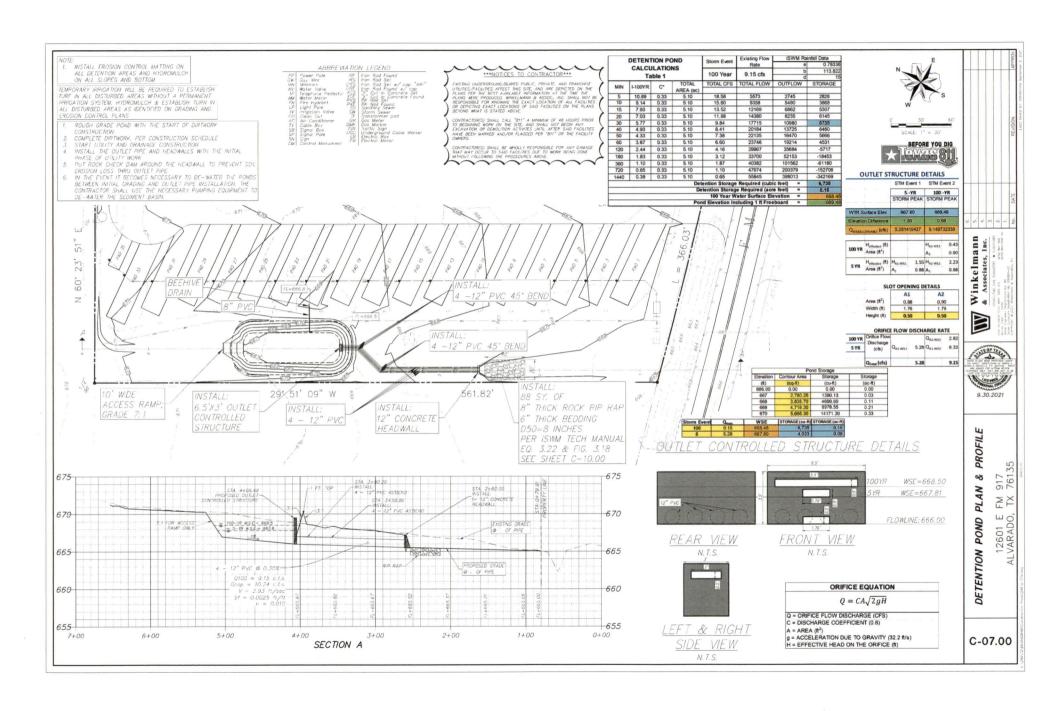


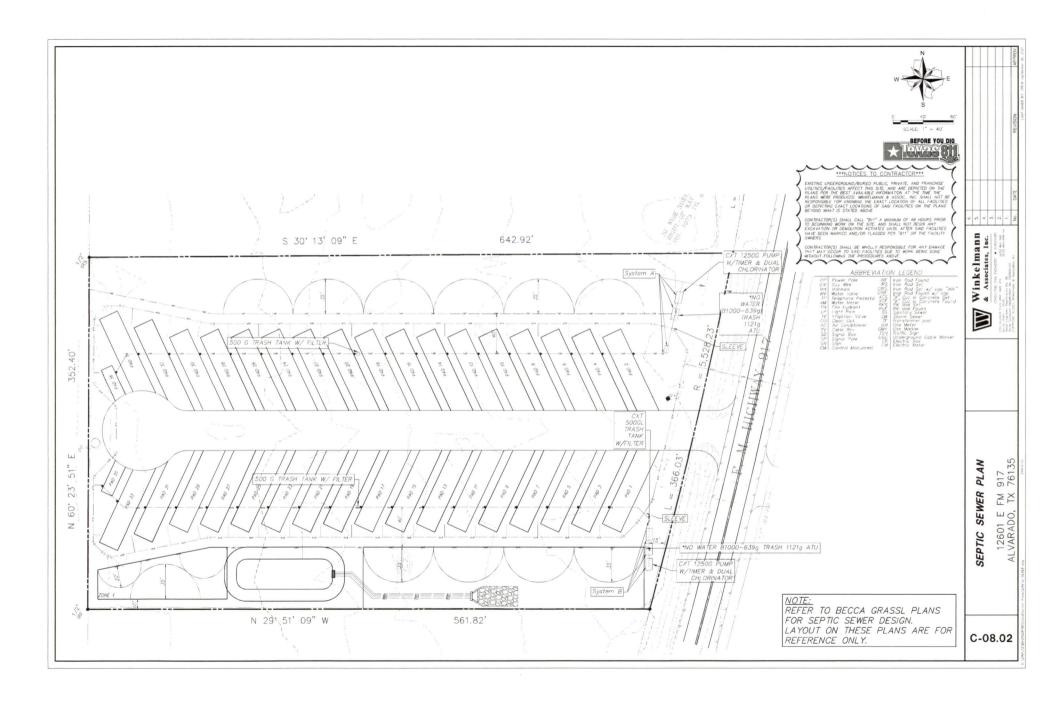
MAP

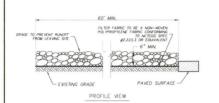
EXISTING DRAINAGE AREA 917

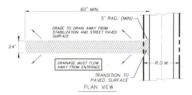
12601 E FM SALVARADO, TX

C-06.00

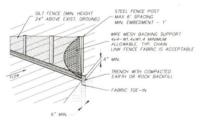




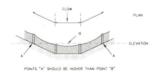




STABILIZED CONSTRUCTION ENTRANCE



CONSTRUCTION OF A FILTER BARRIER (SILT FENCE)



PROPER PLACEMENT OF A FILTER BARRIER IN A DRAINAGE WAY

EROSION CONTROL GENERAL NOTES

- 1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SUGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
- 2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW.
- J. THE TRENCH SHOULD BE A MINMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE CROWN AND BACKFULED.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
- 5. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- 6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE
- 7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
- B. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO. 7 ABOVE.
- 9. EROSION PROTECTION WILL BE DELETED OR ADDED PER THE CITY.
- 10. THE CONTRACTOR SHALL COURTY WITH ALL APPLICABLE TROPAN. STARE, AND ICCAL ERBORN, CONSERVATION, AND SET ROTH ORDINAMENS SHALL ENGAGE. THE ORDINATION SHALL ENGAGE LIBERTORIAL CONTRACTOR UPON CONFECTION OF PERMANENT DRAWNE FACULTES AND THE ESTABLISHMENT OF A STAND OF CRASS OR OTHER GROWN TO PREVAIL PROSOCIAL.
- 11. ALL SEEDING AND FERTILIZATION OF DISTURBED AREAS WILL BE THE RESPONSIBILITY OF THE GRADING

STANDARDS FOR SILT FENCE

TEMPORARY BARRIER FENCE MADE OF BURLAP OR POLYPROPYLENE MATERIAL WHICH IS WATER PERMEABLE BUT WILL TRAP WATERBORNE SEDMENT

PURPOSE

TO INTERCEPT AND DETAIN WATERBORNE SEDIMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT.

CONDITIONS WHERE PRACTICE APPLIES

DESIGN CRITERIA

A CESSON IS NOT REQUIRED FOR THE METALLATION OF THE SET FEMOL. HOWEVER, THE FOLLOWING CRITERIA
SHALL BE GREENED.

SHALL BE GREENED.

2. A ROUSE MEMORIAL TO THE MASKED FROM EXISTING OR CHARLE GROUND.

MATERIAL BURLEY, POLYPROPELLER FAIRE, OR NYTON PERFORMED WITH POLYSTER METTING, THE
MATERIAL BURLEY POLYPROPELLER FAIRE, CORTICUTE THAN 100 FM. THE CORTS SHALL BE
SUPPORT TO STEPLE THE METALL BURLEY BURLEY SHALL BE
SUPPORT TO SUPPORT BE MATERIAL.

TO SUPPORT TO MATERIAL

OUTLET

STONE OVERFLOW STRUCTURE

- STONE OVERFLOW STRUCTURE

 1. USE ONLY DERY GRODE DOOK 4-B INCHES IN DIAMETER FOR STREAM
 FLOW CONDITIONS, USE OPEN GRADED ROOK 3-5 INCHES IN DIAMETER
 FOR OTHER CONDITIONS.

 2. THE CHECK DAM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING
 HAVING A MANGULU OPENING OF I INCH AND MIMMAL WIRE SEZ OF 20
 FOR SHEAT SHEAT SHEAT SHEAT SHEATHING THE SHEATH SHEATHING THE SHEATH SHEATHING THE SHEATH SHEATHING SHEATHING

STABILIZED CONSTRUCTION ENTRANCE

- 1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.
- J. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.
- 4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- MHEN MICESSARY, MENCLES SHALL BE CLEMED TO REMOVE SEDMENT PROR TO ENTRANCE ONTO A PUBLIC ROMBINS, MHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABLIZED WITH CRUSHED STONE WITH DERRANGE FLORING AWAY FROM BOTH THE STREET AND THE STABLIZED ENTRACE. ALL SEDMENT SHALL BE PREVENTED FROM ENTERING ANY STORM, DITCH, OF WATERCOORSE USING APPROVED WETHOOS.
- THE DYTANCE SHALL BE MANTAND IN A CONDITION MICH MIL PREVENT TRACENG OR FLORING OF SCHOOLING TO PARD SHIFTACES, THE MAY REQUIRE PREMICE OF DIFFESSING WITH ADDITIONAL STOM AS CONDITIONS DEMAND, ALL SEDIMENT SPILED, DROPPED, WASHED, OR TRACKED ONTO PAYED SURFACES, MUST BE REMOVED MINISTRATE.
- THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

- USE ONLY OPEN GRADED ROCK 4-8 INCHES IN DIAMETER FOR STREAM FLOW CONDITIONS, USE OPEN GRADED ROCK 3-5 INCHES IN DIAMETER FOR OTHER CONDITIONS,

- WHEN SILT REACHES A DEPTH EQUAL TO ONE—THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.
- WHEN THE SITE IS COMPLETELY STABILIZED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROPRIATE MANNER.

EROSION CONTROL MATTING

ANCHOR SLOT DETAIL BURY THE UP-CHANNEL END OF THE MATTING IN A 6"

- STRIPS OF MATTING SHALL BE INSTALLED PARALLEL TO THE DIRECTION OF FLOW OVER THE SURFACE WHICH IS TO BE PROTECTED.
- THE UP-CHANNEL END OF THE MATTING SHALL BE BURIED IN A TRENCH MEASURING 6 INCHES DEEP AND 6 INCHES WIDE FOR THE EXITIES WOTH OF THE END, THE SOR, SHALL BE BACKFILLD INTO THE TRENCH AND TAMED FIRMS. STAPLES SHALL BE PLACED EVERT 12 MOVES A LONG THE END OF THE MATTING.
- EDGES OF ADJACENT STRIPS OF MATTING SHALL BE OVERLAPPED A MINIMUM OF 4 INCHES AND SHALL BE STAPLED EVERY I FEET ALONG THE DVERLAP.
- WHEN JOHNS STRIPS OF MATTING DID TO DID, A TRENCH SMILAR TO THE ONE DUG AT THE BEDVAMM.
 THE ORIGINAL STRIP SHALL BE DUG WITH THE OF-CHANNEL DID OF THE NEW STRIP BERNE PLACED IN A LOW MANNER IN THE PRODON STRIP BEDOWN FOR DO THE ORIGINAL STRIP. THE DID OF THE STRIP I COLDED WORTH AT LEAST IS WORTE. STRIPLES SHALL BE SHETALLED AT TO WHAT WHITE ALONG THE WORTH OF THE PLACED THE ORIGINAL STRIP. AND HOT OTHER STRIPLES ALONG THE WORTH OF THE PLACED.
- - STAPLES FOR ANCHORMS SOIL STABLIZING MATERALS SHALL BE MADE OF 10 GAUGE WIRE OR HEAVER. THEY SHALL BE 6 TO 10 NOVES IN LINDEY, WITH THE LONGER STAPLES BEING USED IN LOOSE OR UNSTABLE SOILS. THERE SHALL BE ONE STAPLE FOR EACH FOUR (4) SOUARE FEET OF MATTING TO ASSURE PROPER BOOMANG BETWEEN THE SOIL AND THE WITH MATERIAL.

/inkelmann
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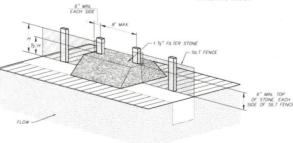


S DETAIL

917 ĒΧ 12601 E .VARADO,

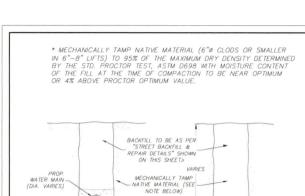
CONTROL EROSION

C-09.01



CHECK DAM

EROSION CONTROL MATTING



PLACE SAND 6" ALL AROUND P.V.C. PIPE. EMBEDMENT TO BE CUSHION SAND, FREE OF CLAY BALLS AND

OTHER OBJ. MAT

P.V.C., C-900, CL-150, DR18 & R.C.C.P.

VARIES

DUCTUE IRON CL-51

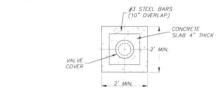
VARIES _

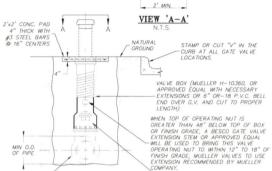
PROP. WATER MAIN

(DIA. VARIES)

PIPE EMBEDMENT DETAIL (12" DIA. AND SMALLER)

TYPICAL GATE VALVE SETTING AND BOX





11 1 DEGREES 22 T DEGREES 45 DEGREES TEE & PLUG PIPE X-* DIA. FT. "A" MIN. AREA 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.06 1.00 6" 1.5 1.00 1.00 1.00 1.00 1.14 1.30 1.55 2.40 1.30 1.70 1.5 1.00 1.52 10" 1.5 1.00 1.00 1.35 1.84 1.90 3.61 2.58 6.66 4.71 12" 1.5 1.00 1.33 1.63 2.65 1.86 5.19 3.10 9.60 2.61 14" 1.5 1.03 1.81 1.90 3.60 2.66 7.07 3.61 13.06 3.04 6.79 9.246 16" 2.0 1.18 2.36 18" 2.0 1.33 2.99 2.17 4.71 3.04 9.23 4.13 17.06 3.47 12.06 2 44 5 96 3 42 11 69 4 65 21 59 3 91 20" 2.0 1.48 3.70 2.71 7.35 3.80 14.43 5.16 26.86 4.34 18.85 2.0 1.55 4.07 2.85 8.11 3.99 15.91 5.42 29.39 4.56 24" 2.0 1.77 5.32 3.25 10.59 4.56 20.77 6.20 38.39 5.21 27.14 3.66 13.40 5.13 26.29 6.97 48.58 5.86 34.35 4.07 16.55 5.70 32.46 7.74 59.98 6.51 42.41 1.99 6.73 30" 2.5 2.22 8.31 33" 2.5 2.44 10.06 4.47 20.02 6.27 39.28 8.52 72.57 7.16 51.31 36" 2.5 2.66 11.97 4.88 23.83 6.84 46.74 9.29 86.37 7.81 61.07

DIMENSIONS OF CONCRETE FOR HORIZONTAL THRUST BLOCKING AT FITTINGS

39" 3.0 2.88 14.05 5.29 27.97 7.41 54.86 10.07 101.36 8.47 71.68 42" 3.0 3.10 16.30 5.69 32.43 7.98 63.62 10.85 117.56 9.12 83.13

HORIZONTAL THRUST BLOCK NOTES:

MUELLER RESILIENT WEDGE, CLOW RESILIENT WEDGE, - AMERICAN FLOW CONTROL RESILIENT WEDGE AND WATEROUS RESILIENT WEDGE.

1. RETAINER GLANDS OR OTHER RESTRAINING DEVICES MAY BE REQUIRED AS NEEDED.

PLUG OR CAP

- 2. ALL CALCULATIONS ARE BASED ON A WATER LINE PRESSURE OF 150 p.s.i. AND AN ALLOWABLE SOIL BEARING VALUE OF 2,500 POUNDS PER SQUARE FOOT.
- 3. 2000 PSI, CONCRETE SHALL BE USED FOR ALL BLOCKING.
- 4. THE MINIMUM VERTICAL DIMENSIONS OF ALL BLOCKING SHALL BE 1,5 TIMES THE PIPE DIAMETER WITH AT LEAST 0.75 TIMES THE PIPE DIAMETER EXTENDING BOTH ABOVE AND BELOW THE PIPE CENTERLINE, THIS DIMENSION DETERMINES THE "X" DIMENSION FOR 11 1/4" BENDS.
- FOR 22-1/2', 45', 90', AND TEE AND PLUGS, THE VERTICAL DIMENSION SHALL BE EQUAL TO THE HORIZONTAL DIMENSION SHOWN TO PRODUCE THE REQUIRED MINIMUM AREA.
- 6. ALL MINIMUM AREAS ARE IN SQUARE FEET.

/inkelmann
Associates, Inc. 3 8

"A"-11 DEGREES

"B"-221 DEGREES
"C"-45 DEGREES

"D"-90 DEGREES



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