

CONSTRUCTION PLANS

FOR

RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

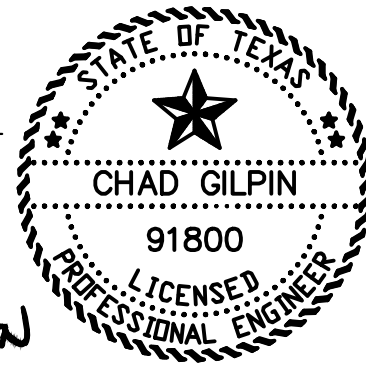
FEBRUARY 2022

PROJECT # PARKS 2022-01

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SUBMITTED BY:



Chad Gilpin

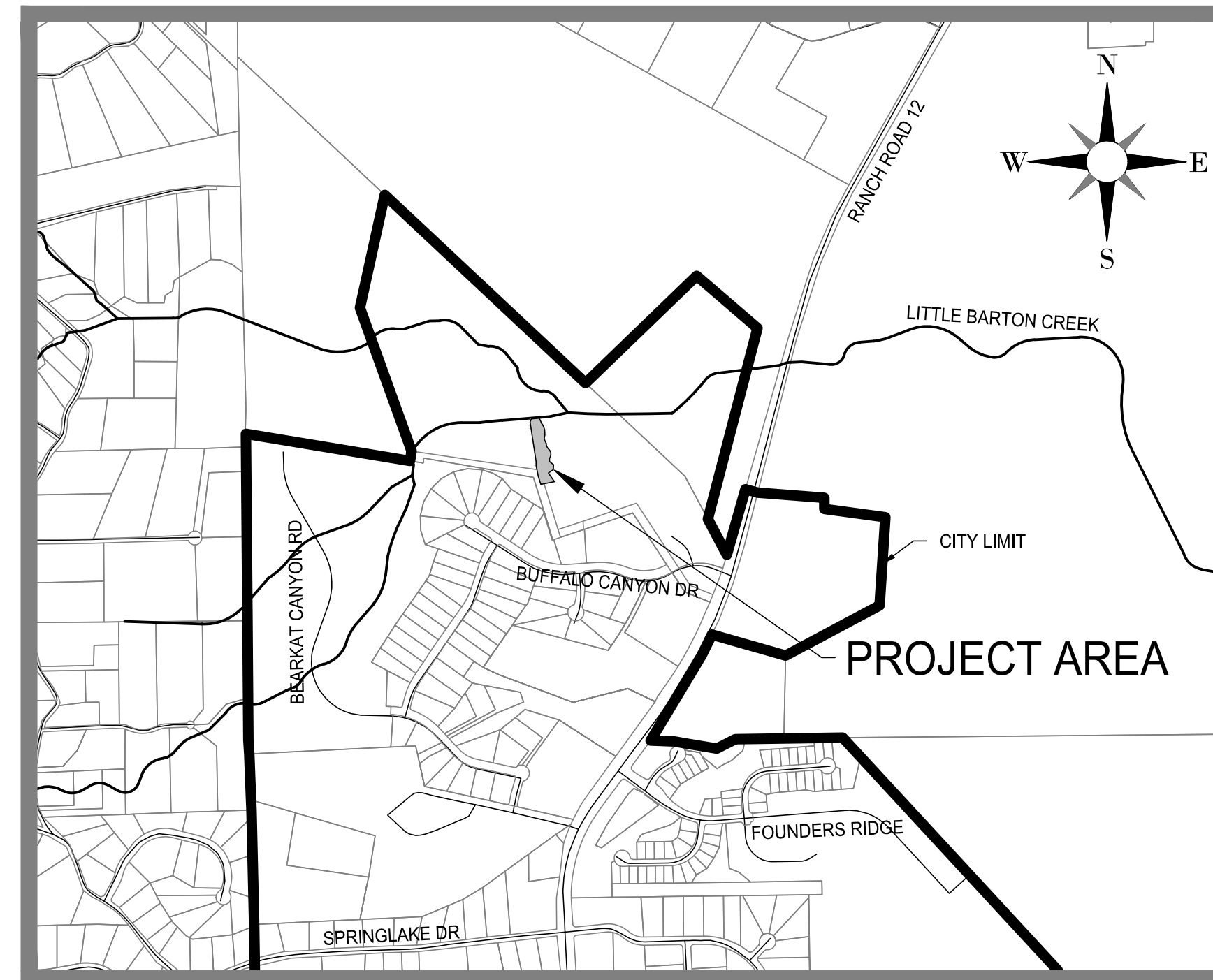
CHAD GILPIN, P.E., CITY ENGINEER

03/02/22
DATE

APPROVED BY:

MICHELLE FISCHER, CITY ADMINISTRATOR

DATE



APPROX. SCALE: 1"=1000'

PREPARED FOR:

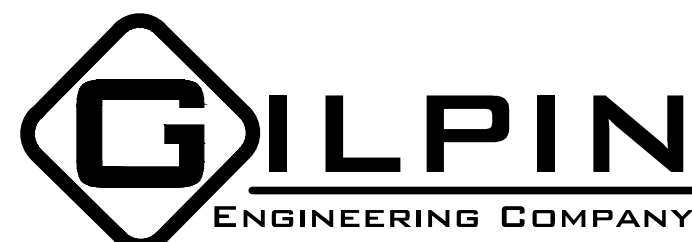
CITY OF DRIPPING SPRINGS, TEXAS



NOTES:

1. THIS PROJECT LIES WITHIN THE CITY LIMITS OF DRIPPING SPRINGS, TEXAS AND IS ZONED PP PUBLIC PARK.
2. THIS PROJECT LIES WITHIN THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER.
3. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE 4204, NAD83. COORDINATES AND DISTANCES SHOWN HEREON ARE IN GRID.
4. DELETED NOTE
5. THE PROPOSED IMPROVEMENTS PLANS WERE PREPARED WITH THE BEST INFORMATION AVAILABLE THROUGH SURVEY, RECORD DRAWINGS, AND FIELD OBSERVATIONS. PER DIRECTION FROM THE CITY, GEOTECHNICAL PAVEMENT ANALYSIS AND RECOMMENDATIONS WERE NOT PERFORMED AS PART OF THE PROJECT.
6. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SURVEY VERIFICATION REQUIRED TO COMPLETE THE PROJECT.

PREPARED BY:



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T.B.P.E. Firm Registration # F-9266
9701 BRODIE LN, SUITE 203
AUSTIN, TX 78748
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1 ADDENDUM 1 - 03/02/2022

THESE PLANS ARE FULL SIZE AT 11" X 17"

01 OF 20

GILP-BLK.ctb

A. GENERAL CONSTRUCTION NOTES

- THE CONTRACTOR IS TO CONTACT ONE OF THE FOLLOWING:
 - TEXAS EXCAVATION SAFETY SYSTEM (TESS) 1-800-245-4545
 - TEXAS ONE CALL SYSTEM (TOCS) 1-800-344-8377
 - FOR LOCATION OF EXISTING FACILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.
- PRIOR TO ANY CONSTRUCTION, THE ENGINEER SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE CITY OF DRIPPING SPRINGS, HER/HIMSELF, THE CONTRACTOR, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES AND ANY OTHER ENTITY THE CITY OR ENGINEER MAY REQUIRE.
- ALL CONSTRUCTION OPERATIONS SHALL BE ACCOMPLISHED IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE U.S. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION. OSHA STANDARDS MAY BE PURCHASED FROM THE GOVERNMENT PRINTING OFFICE; INFORMATION AND RELATED REFERENCE MATERIALS MAY BE PURCHASED FROM OSHA, 611 E. 6TH STREET, AUSTIN, TEXAS.
- CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE INCURRED TO EXISTING FACILITIES AS A RESULT OF CONSTRUCTION OPERATIONS SHALL BE REPAIRED IMMEDIATELY BY THE CONTRACTOR, AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR TO GIVE NOTICE TO ALL AUTHORIZED INSPECTORS, SUPERINTENDENTS OR PERSONS IN CHARGE OF PUBLIC AND PRIVATE UTILITIES AFFECTED BY HIS OPERATIONS AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- CONTRACTOR TO COMPLY WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REQUIREMENTS REGARDING EXCESS AND WASTE MATERIAL, INCLUDING METHODS OF HANDLING AND DISPOSAL.
- CONTRACTOR TO COORDINATE INTERRUPTIONS OF ALL UTILITIES AND SERVICES. ALL WORK TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE APPLICABLE UTILITY COMPANY OR AGENCY INVOLVED.
- WHEN UN-LOCATED OR INCORRECTLY LOCATED, A BREAK IN UTILITY LINES, OR OTHER UTILITIES AND SERVICES ARE ENCOUNTERED DURING SITE WORK OPERATIONS, CONTRACTOR SHALL NOTIFY THE APPLICABLE UTILITY COMPANY IMMEDIATELY TO OBTAIN PROCEDURE DIRECTIONS. CONTRACTOR SHALL COOPERATE WITH THE APPLICABLE UTILITY COMPANY IN MAINTAINING ACTIVE SERVICES IN OPERATION.
- WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE ENGINEER.
- CONTRACTOR SHALL KEEP ACCURATE RECORDS OF ALL CONSTRUCTION THAT DEVIATES FROM THE PLANS. RECORD SHALL BE KEPT IN AN ONSITE SET OF MARKED-UP RECORD DRAWINGS.
- CONTRACTOR TO LOCATE, PROTECT, AND MAINTAIN BENCHMARKS, MONUMENTS, CONTROL POINTS AND PROJECT ENGINEERING REFERENCE POINTS. RE-ESTABLISH DISTURBED OR DESTROYED ITEMS BY REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF TEXAS, AT NO ADDITIONAL COST TO OWNER.
- CONTRACTOR SHALL STRIP SIX (6) INCHES OF TOPSOIL FROM ALL AREAS SUBJECT TO GRADE MODIFICATION. REMOVE ALL AREAS OF WEAK SOIL.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING FENCES. IN THE EVENT THAT A FENCE MUST BE REMOVED, THE CONTRACTOR SHALL REPLACE SAID FENCE OR PORTION THEREOF WITH THE SAME TYPE OF FENCING TO A QUALITY OF EQUAL OR BETTER THAN THE ORIGINAL FENCE.
- UPON COMPLETION OF THE PROJECT, THE SITE(S) AS DEFINED HEREIN SHALL BE CLEANED OF ALL DEBRIS AND LEFT IN A NEAT AND PRESENTABLE CONDITION.
- ALL ADJOINING PAVEMENT SECTIONS SHALL BE PROTECTED DURING ALL PHASES OF CONSTRUCTION AND ANY DAMAGES INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR TO CONTROL DUST CAUSED BY THE WORK AND COMPLY WITH POLLUTION CONTROL REGULATIONS OF GOVERNING AUTHORITIES (NO SEPARATE PAY).
- TRAFFIC CONTROLS TO BE INSTALLED IN ACCORDANCE WITH THE CURRENT TxDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND TxDOT BARRICADE AND CONSTRUCTION STANDARDS.
- RE-VEGETATE ALL DISTURBED AREAS UPON COMPLETION OF THE WORK PER CITY OF DRIPPING SPRINGS CONSTRUCTION STANDARDS.
- CONTRACTOR TO EXERCISE CAUTION DURING CONSTRUCTION NEAR AND AROUND GAS LINES AND POWER LINES.
- ALL WORK IS TO BE PERFORMED BETWEEN THE FOLLOWING HOURS:
 - 7:00 A.M. TO 7:00 P.M. MONDAY - FRIDAY
 - ALL WORK REQUIRING CITY INSPECTION SHALL BE PERFORMED MONDAY THRU FRIDAY. THE CITY RESERVES THE RIGHT TO REQUIRE THE CONTRACTOR TO UNCOVER ALL WORK PERFORMED WITHOUT INSPECTION.
- THE CONTRACTOR SHALL MAKE AN EXAMINATION OF THE PROJECT SITE AND COMPLETELY FAMILIARIZE HIMSELF WITH THE NATURE AND EXTENT OF ANY WORK TO BE ACCOMPLISHED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR ANY WORK MADE NECESSARY BY UNUSUAL CONDITIONS OR OBSTACLES ENCOUNTERED DURING THE PROGRESS OF THE WORK, WHEN SUCH CONDITIONS OR OBSTACLES ARE READILY APPARENT UPON A VISIT TO THE SITE. IF THERE ARE ANY QUESTIONS OF THIS REGARD OR IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO THE SUBMISSION OF BIDS. IN THOSE CASES WHERE FIXED FEATURES REQUIRE, THE DESIGN SLOPES INDICATED HEREIN AND ON THE CROSS SECTIONS MAY BE MODIFIED IN THE FIELD AS DETERMINED BY THE CITY OF DRIPPING SPRINGS IF EXISTING CONDITIONS SO REQUIRE.
- ACCESS TO OFFICES, BUSINESSES, AND DRIVEWAYS ALONG THE PROJECT MUST RECEIVE PRIORITY BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF HIS MATERIALS AND EQUIPMENT FROM THEFT, VANDALISM, ANIMALS, FIRE, ETC. WHILE SAID MATERIALS AND EQUIPMENT ARE ON THE PROJECT, WHETHER STORED OR INSTALLED IN PLACE, UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF DRIPPING SPRINGS.

B. ENVIRONMENTAL NOTES

- THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF THE PROJECT AND GRASS RESTORATION.
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL DISTURBED AREAS TO BE RESTORED UPON COMPLETION OF CONSTRUCTION. NO SEPARATE PAYMENT WILL BE MADE FOR RE-VEGETATION ACTIVITIES. ALL MATERIALS AND LABOR SHALL BE SUBSIDIARY TO OTHER BID ITEMS.
- RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 70% COVERAGE, PROVIDED NO BARE SPOTS LARGER THAN 25 SQUARE FEET EXIST.
- A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
- THE CONTRACTOR TO SEED, SOD OR HYDROMULCH ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIPLINE.
- TO AVOID SOIL COMPACTION, CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIPLINE AREAS.
- WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET (OR TO THE LIMITS OF LOWER BRANCHING) IN ADDITION TO THE FENCING.
- TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- ANY ROOT EXPOSED BY THE CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO DAYS, COVER THEM WITH ORGANIC MATTER IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (RIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED, APPROVED STANDARDS OF THE INDUSTRY (REFERENCE THE "**NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES**").
- THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING ¼ INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SPOIL DISPOSAL.

C. SEQUENCE OF CONSTRUCTION:

- TEMPORARY EROSION AND SEDIMENTATION CONTROLS ARE TO BE INSTALLED AS INDICATED ON THE APPROVED SITE PLAN OR SUBDIVISION CONSTRUCTION PLAN AND IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP) THAT IS REQUIRED TO BE POSTED ON THE SITE. INSTALL TREE PROTECTION, INITIATE TREE MITIGATION MEASURES AND CONDUCT "PRE - CONSTRUCTION" TREE FERTILIZATION (IF APPLICABLE).
- THE ENVIRONMENTAL PROJECT MANAGER, AND/OR SITE SUPERVISOR, AND/OR DESIGNATED RESPONSIBLE PARTY, AND THE GENERAL CONTRACTOR WILL FOLLOW THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE. TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE REVISED, IF NEEDED, TO COMPLY WITH CITY INSPECTORS' DIRECTIVES, AND REVISED CONSTRUCTION SCHEDULE RELATIVE TO THE WATER QUALITY PLAN REQUIREMENTS AND THE EROSION PLAN.
- THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS WILL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN (ESC) AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) POSTED ON THE SITE.
- BEGIN SITE CLEARING/CONSTRUCTION (OR DEMOLITION) ACTIVITIES.

- PERMANENT WATER QUALITY PONDS OR CONTROLS WILL BE CLEANED OUT AND FILTER MEDIA WILL BE INSTALLED PRIOR TO/CONCURRENTLY WITH RE-VEGETATION OF SITE.
- COMPLETE CONSTRUCTION AND START RE-VEGETATION OF THE SITE AND INSTALLATION OF LANDSCAPING.
- AFTER A FINAL INSPECTION HAS BEEN CONDUCTED BY THE CITY INSPECTOR AND WITH APPROVAL FROM THE CITY INSPECTOR, REMOVE THE TEMPORARY EROSION AND SEDIMENTATION CONTROLS AND COMPLETE ANY NECESSARY FINAL RE-VEGETATION RESULTING FROM REMOVAL OF THE CONTROLS. CONDUCT ANY MAINTENANCE AND REHABILITATION OF THE WATER QUALITY PONDS OR CONTROLS.

D. STREET AND DRAINAGE NOTES:

- ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY AT THE CITY'S EXPENSE. ANY RETESTING SHALL BE PAID FOR BY THE CONTRACTOR. A CITY INSPECTOR SHALL BE PRESENT DURING ALL TESTS. TESTING SHALL BE COORDINATED WITH THE CITY INSPECTOR AND HE SHALL BE GIVEN A MINIMUM OF 24 HOURS NOTICE PRIOR TO ANY TESTING.
- BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY TO WITHIN 3" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY GRANULAR WITH NO ROCKS LARGER THAN 6" IN THE GREATEST DIMENSION. THE REMAINING 3" SHALL BE CLEAN TOPSOIL FREE FROM ALL CLOUDS AND SUITABLE FOR SUSTAINING PLANT LIFE.
- DEPTH OF COVER FOR ALL CROSSINGS UNDER PAVEMENT INCLUDING GAS, ELECTRIC, TELEPHONE, CABLE TV, WATER SERVICES, ETC., SHALL BE A MINIMUM OF 30" BELOW SUBGRADE UNLESS OTHERWISE SPECIFIED ON THE PLAN
- STREET RIGHTS-OF-WAY SHALL BE GRADED AT A SLOPE OF 1/4" PER FOOT TOWARD THE CURB UNLESS OTHERWISE INDICATED. HOWEVER, IN NO CASE SHALL THE WIDTH OF RIGHT-OF-WAY AT 1/4" PER FOOT SLOPE BE LESS THAN 10 FEET UNLESS A SPECIFIC REQUEST FOR AN ALTERNATE GRADING SCHEME IS MADE TO AND ACCEPTED BY THE CITY OF DRIPPING SPRINGS PLANNING AND DEVELOPMENT DEPARTMENT.
- BARRICADES BUILT TO CITY OF DRIPPING SPRINGS STANDARDS SHALL BE CONSTRUCTED ON ALL DEAD-END STREETS AND AS NECESSARY DURING CONSTRUCTION TO MAINTAIN JOB AND PUBLIC SAFETY.
- ALL R.C.P. SHALL BE MINIMUM CLASS III.

E. PROJECT NOTES:

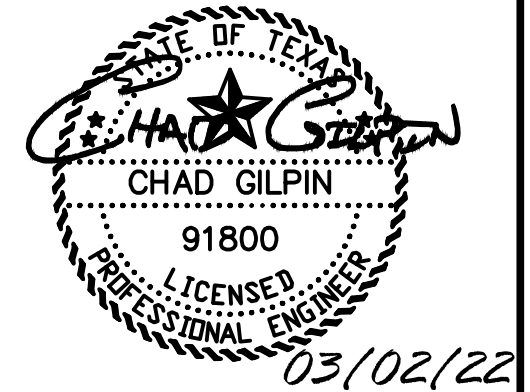
- CONTRACTOR IS RESPONSIBLE FOR THE HAUL-OFF OF DEBRIS AND CONSTRUCTION SPOILS AS PART OF THIS PROJECT. ROADWAY BASE AND ASPHALT FOUND TO BE IN GOOD CONDITION MAY BE STOCKPILED ON-SITE AT THE DIRECTION OF THE CITY.



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ENGINEER'S SEAL:



FACILITY:

DRIPPING SPRINGS
RANCH PARK

PROJECT:

RANCH HOUSE
ROAD PHASE 1 &
DSRP RE-STRIPING
PROJECT



DESIGN: BL CHECKED: CG/RB

DATE: 02/09/2022

PROJ # PARKS-2022-01

GENERAL NOTES
SHEET
02 OF 20

RANCH HOUSE ROAD PHASE 1 AND DSRP RESTRIPIING PROJECT

BASE BID

Bid Item	SPEC	Description	Unit	Qty
1	TxDOT 01006001	PREPARING ROW	AC	1.77
2	TxDOT 01056008	REMOVING STAB BASE AND ASPH PAV (6")	SY	240
3	TxDOT 01106002	EXCAVATION (CHANNEL)	CY	365
4	TxDOT 01606003	FURNISHING AND PLACING TOPSOIL (4")	SY	1,200
5	TxDOT 01646023	CELL FBR MLCH SEED(PERM)(RURAL)(CLAY)	SY	1,200
6	TxDOT 01686001	VEGETATIVE WATERING	MG	15
7	TxDOT 02476388	FL BS (CMP IN PLC)(TY A GR 5)(6")	SY	240
8	TxDOT 03106001	PRIME COAT (MULTI OPTION)	GAL	48
9	TxDOT 03406034	D-GR HMA(SQ) TY-C PG64-22	SY	240
10	TxDOT 04326002	RIPRAP (CONC)(5 IN)	CY	2
11	TxDOT 04326033	RIPRAP (STONE PROTECTION)(18 IN)	SY	520
12	TxDOT 04626003	CONC BOX CULV (4 FT X 2 FT)	LF	118
13	TxDOT 04666152	WINGWALL (FW - O) (HW=5 FT)	EA	1
14	TxDOT 04666166	WINGWALL (FW - S) (HW=5 FT)	EA	1
15	TxDOT 05066020	CONSTRUCTION EXITS (INSTALL) (TY 1)	SY	67
16	TxDOT 05066038	TEMP SEDMT CONT FENCE (INSTALL & REMOVE)	LF	772
17	TxDOT 06446004	IN SM RD SN SUP&AM TY10BWG(1)SA(T)	EA	4
18	TxDOT 06666170	REFL PAV MRK TY II (W) 4" (SLD)	LF	4,950
19	TxDOT 6666178	REFL PAV MRK TY II (W) 8" (SLD)	LF	3,250
20	TxDOT 06666182	REFL PAV MRK TY II (W) 24" (SLD)	LF	18
21	TxDOT 06666197	REFL PAV MRK TY II (W) (SYMBOL)	EA	13
22	TxDOT 06666207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	2,950
23		REFL PAV MRK TY II FIRE LANE STRIPING	LF	5,150
24		CROSS-WALK STRIPING	SY	25
25	COA 610S-A	PROTECTIVE FENCING TYPE A CHAIN LINK FENCE	LF	750
26		LEVEL SPREADER	EA	1
27		DITCH LINE SEDIMENT TRAP	EA	3
28	COA 439S-1	PARKING LOT BUMPER CURBS	EA	49
29		RUSTIC TWO-POST CEDAR FENCE	LF	54

SEE NOTE 1
SEE NOTE 1
SEE NOTE 1
SEE NOTE 1

NOTES:

- GLASS BEADS NOT REQUIRED.

BID ALTERNATE 1

Bid Item	SPEC	Description	Unit	Qty
B1-1	TxDOT 06666170	REFL PAV MRK TY II (W) 4" (SLD)	LF	360
B1-2	TxDOT 06666207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	380
B1-3	TxDOT 02476388	FL BS (CMP IN PLC)(TY A GR 5)(6")	SY	1,080
B1-4	TxDOT 03106001	PRIME COAT (MULTI OPTION)	GAL	216
B1-5	TxDOT 03406034	D-GR HMA(SQ) TY-C PG64-22	SY	1,080

SEE NOTE 1
SEE NOTE 1

BID ALTERNATE 2

Bid Item	SPEC	Description	Unit	Qty
B2-1	TxDOT 01006001	PREPARING ROW	AC	0.15
B2-2	TxDOT 06666207	REFL PAV MRK TY II (Y) 4" (SLD)	LF	170
B2-3	TxDOT 02476388	FL BS (CMP IN PLC)(TY A GR 5)(6")	SY	350
B2-4	TxDOT 03106001	PRIME COAT (MULTI OPTION)	GAL	70
B2-5	TxDOT 03406034	D-GR HMA(SQ) TY-C PG64-22	SY	350
B2-6	TxDOT 04326033	RIPRAP (STONE PROTECTION)(18 IN)	SY	30
B2-7	TxDOT 04646005	RC PIPE (CL III)(24 IN)	LF	40
B2-8	TxDOT 04676005	SET (TY I) (24 IN) (3: 1) (C)	EA	1
B2-9	TxDOT 04966006	REMOV STR (HEADWALL)	EA	1
B2-10		BOLLARDS	EA	4
B2-11		RELOCATE ELECTRICAL HOOKUPS	EA	2
B2-12		RV - LOWER ELECTRICAL SERVICE (36-IN BELOW FINISHED GRADE)	LF	10
B2-13		RV - LOWER WATER SERVICE (36-IN BELOW FINISHED GRADE)	LF	10

SEE NOTE 1

BID ALTERNATE 3

Bid Item	SPEC	Description	Unit	Qty
B3-1	TxDOT 06666170	REFL PAV MRK TY II (W) 4" (SLD)	LF	150
B3-2	TxDOT 06666197	REFL PAV MRK TY II (W) (SYMBOL)	EA	2
B3-3	TxDOT 02476388	FL BS (CMP IN PLC)(TY A GR 5)(6")	SY	190
B3-4	TxDOT 03106001	PRIME COAT (MULTI OPTION)	GAL	38
B3-5	TxDOT 03406034	D-GR HMA(SQ) TY-C PG64-22	SY	190
B3-6		CROSS-WALK STRIPING	SY	10
B3-7	TxDOT 05316001	CONC SIDEWALKS (4")	SY	150
B3-8	TxDOT 05316001	SIDEWALK BOX CULVERT	EA	2
B3-9	COA 439S-1	PARKING LOT BUMPER CURBS	EA	6

SEE NOTE 1
SEE NOTE 1

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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AMENDED. UNAUTHORIZED USE OF THESE PLANS
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ENGINEER'S SEAL:



FACILITY:

DRIPPING SPRINGS
RANCH PARK

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ROAD PHASE 1 &
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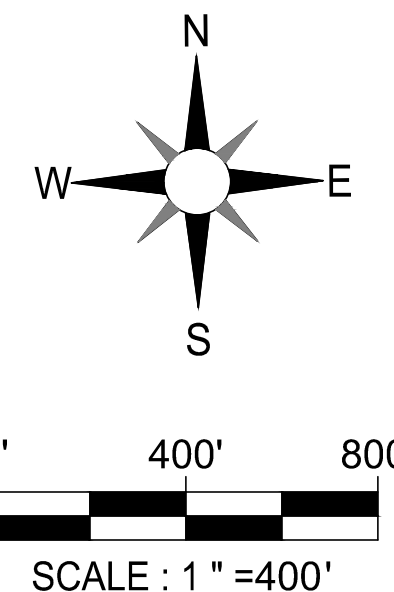
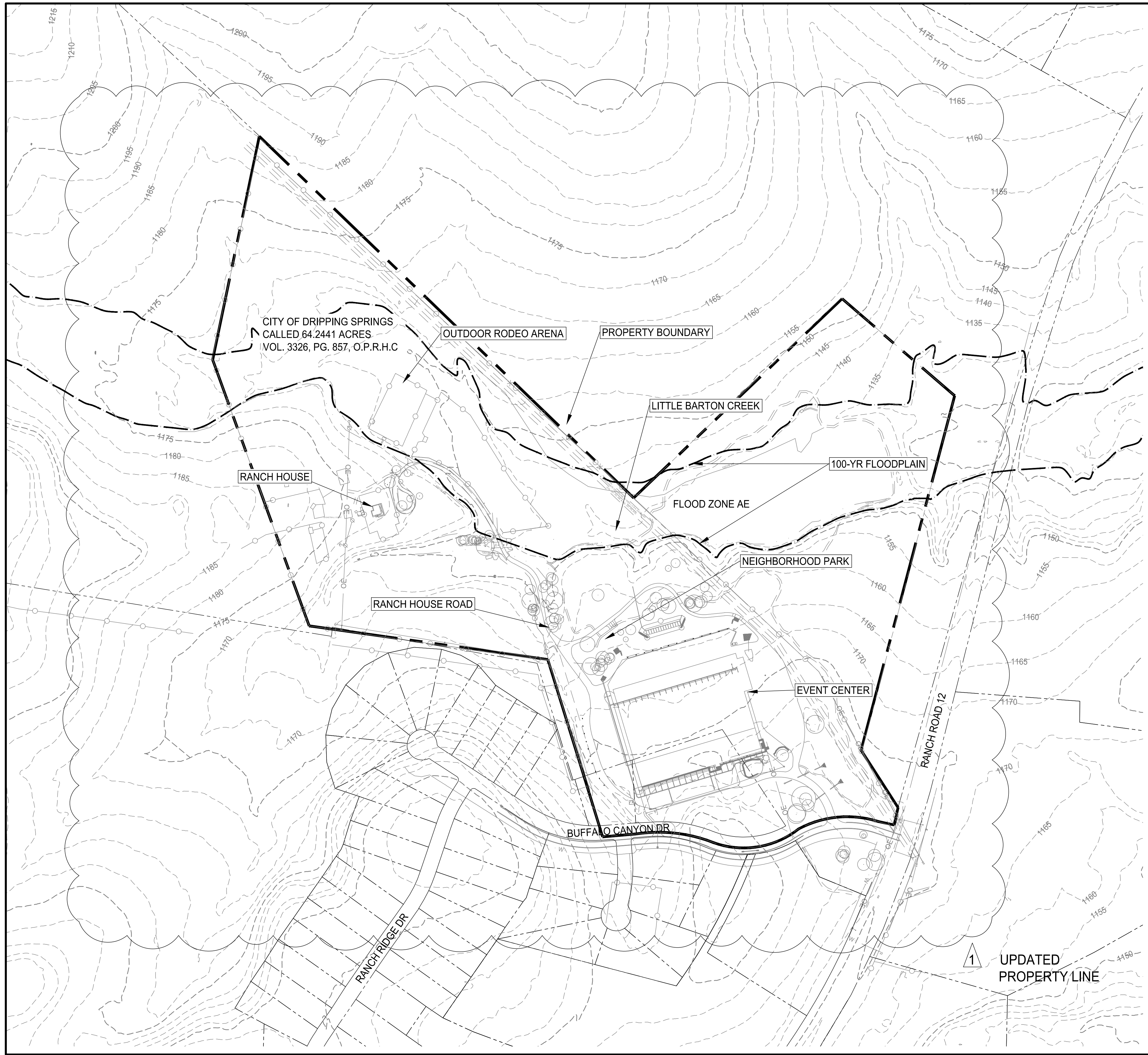


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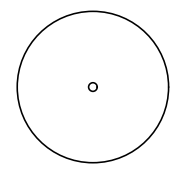




DATE: 02/09/2022

PROJ # PARKS-2022-01

SCHEDULE OF
QUANTITIES
SHEET
03 OF 20



LEGEND

-  EXISTING TREE TO REMAIN
-  EXISTING CONTOUR
-  PROPERTY BOUNDARY
-  EXISTING FENCE
-  100-YR FLOODPLAIN BOUNDARY

NOTES:

1. A PORTION OF WORK LIES IN ZONE "AE" (AREAS DETERMINED TO BE INSIDE THE 1% ANNUAL CHANCE FLOODPLAIN), AS DELINEATED ON THE FLOOD INSURANCE RATE MAP FOR HAYS COUNTY, TEXAS AND INCORPORATED AREAS, MAP NUMBER 48209C01005F, REVISED SEPTEMBER 2, 2005. NO FILL IS BEING PLACED WITHIN THE FLOODWAY AS PART OF THE PROPOSED DRAINAGE AND ROADWAY IMPROVEMENTS.


NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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ENGINEER'S SEAL:



FACILITY:

DRIPPING SPRINGS RANCH PARK

PROJECT:

RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT



DRIPPING SPRINGS
Texas
Open spaces. friendly faces.

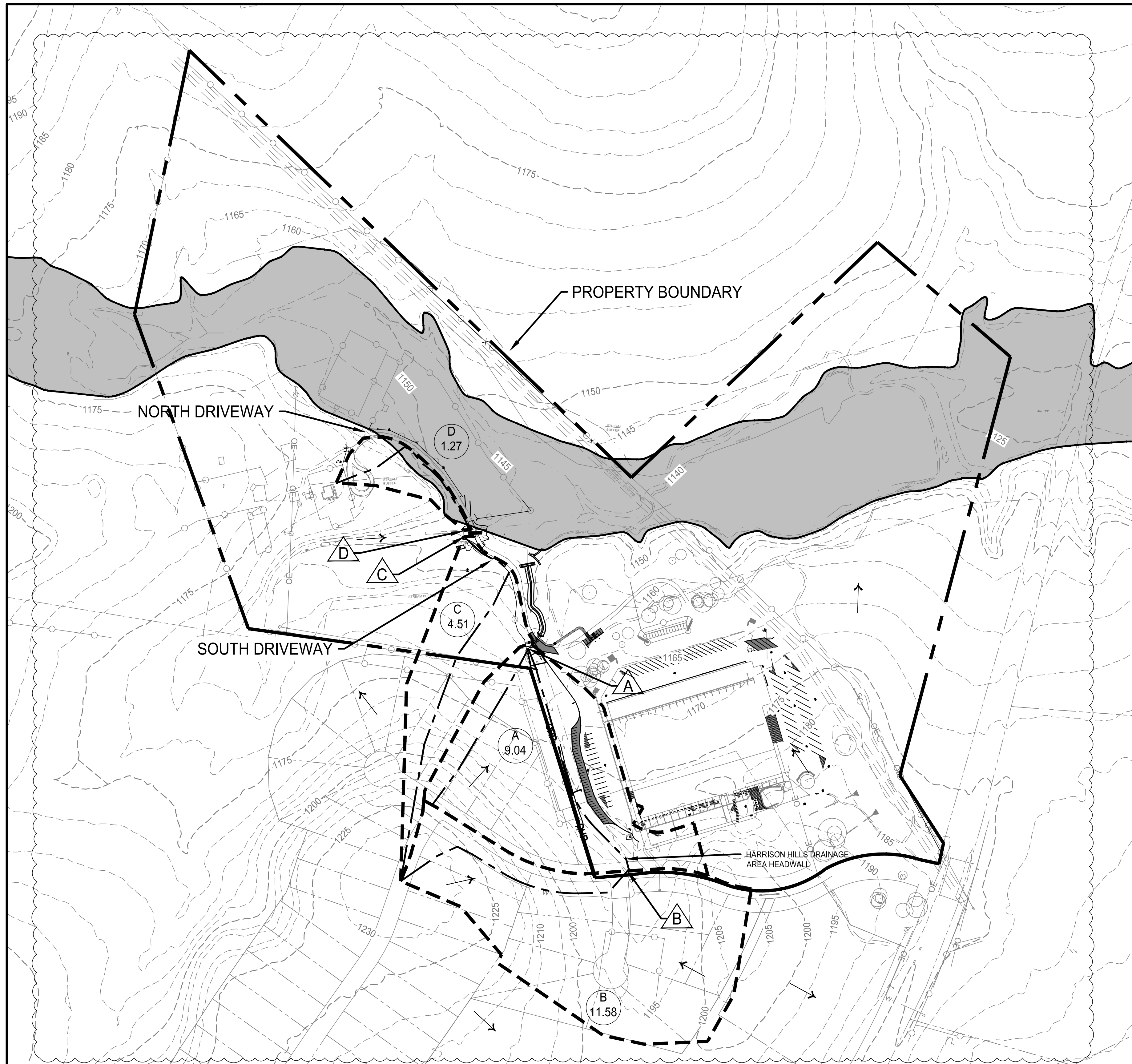
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DATE: 02/09/2022

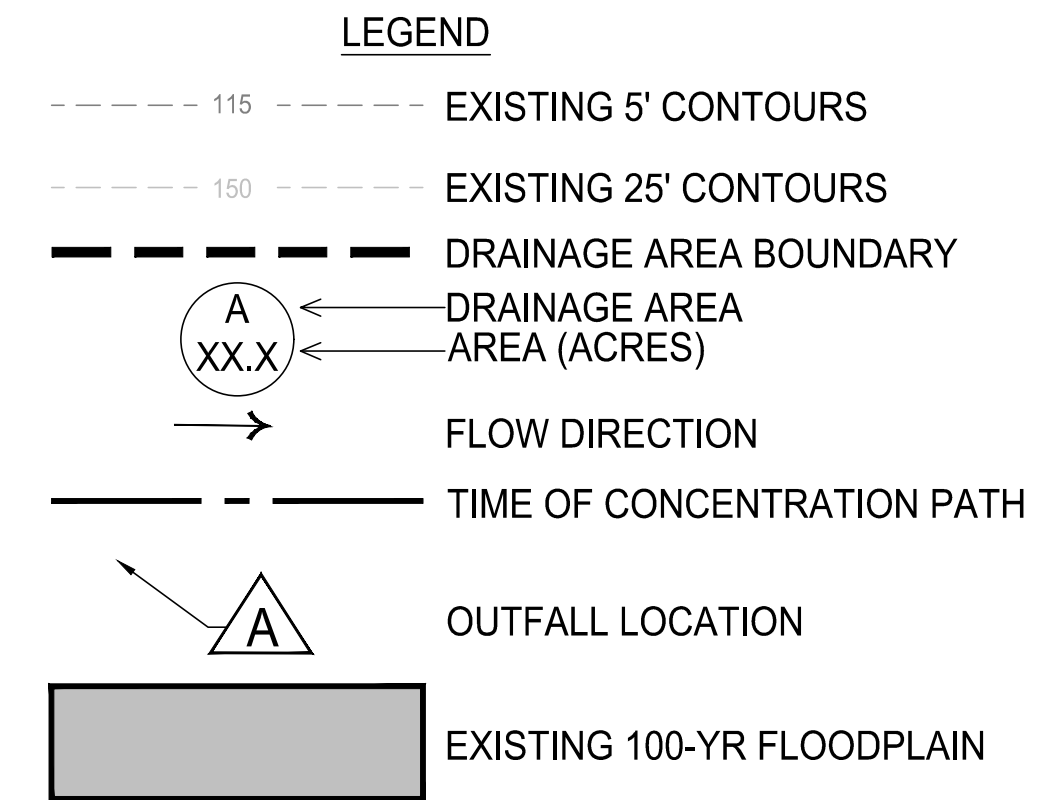
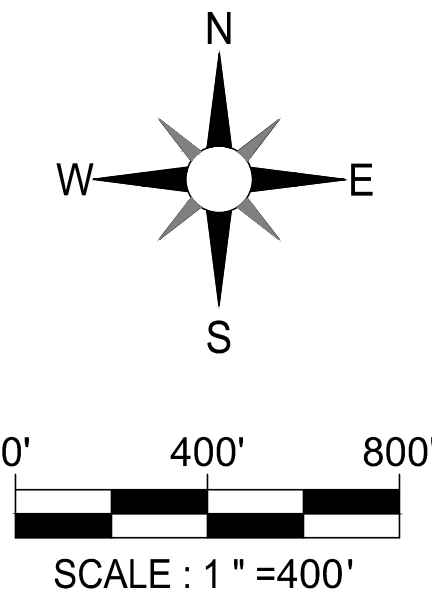
PROJ # PARKS-2022-01

OVERALL EXISTING CONDITIONS

SHEET
05 OF 20



1 UPDATED PROPERTY LINE



NOTES:

1. THE PROPOSED SITE IS LOCATED PARTIALLY WITHIN THE 100-YEAR FLOODPLAIN. FIRM PANEL NO. 48209C0128F, HAYS COUNTY, TEXAS AND INCORPORATED AREAS (EFFECTIVE DATE SEPTEMBER 2, 2005).
2. THE SITE IS LOCATED WITHIN THE EDWARDS AQUIFER CONTRIBUTING ZONE.
3. THE SITE IS LOCATED IN THE LITTLE BARTON CREEK ZONE WATERSHEDS.
4. 1 FT CONTOURS WERE INTERPOLATED FROM THE CAPCOG 2008 5 FT CONTOURS AVAILABLE ON THE TEXAS NATURAL RESOURCES INFORMATION SYSTEM (TNRIS) DATABASE.
5. THE 24-HOUR STORM EVENT RAINFALL DATA USED FOR THIS DRAINAGE ANALYSIS WAS OBTAINED FROM THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) AND IS CURRENT FOR THE CITY OF DRIPPING SPRINGS AT THE TIME THIS SITE PLAN WAS COMPLETED.
6. ALL DRAINAGE DESIGN CRITERIA USED FOR THIS DRAINAGE ANALYSIS OTHER THAN THE STORM EVENT RAINFALL DATA WAS OBTAINED FROM THE CURRENT CITY OF AUSTIN DRAINAGE CRITERIA MANUAL.

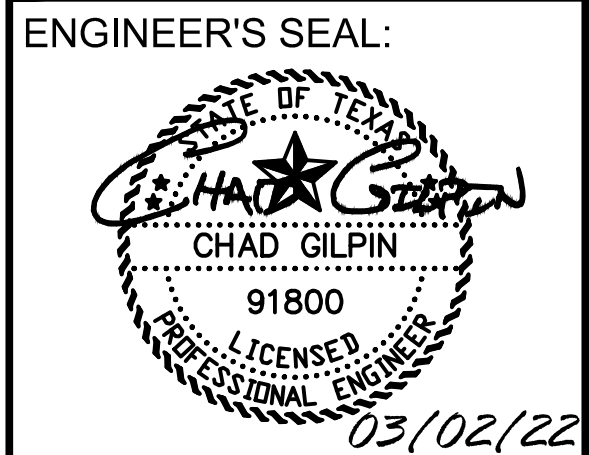
EXISTING CONDITIONS - 2020 AUTODESK HYDRAFLOW HYDROGRAPHS MODEL

Drainage Area	Area (sq ft)	Area (acres)	Area (Sq Mile)	CN	Tc (hrs)	Tlag	Q - PEAK FLOWS			
							2 YEAR (cfs)	10 YEAR (cfs)	25 YEAR (cfs)	100 YEAR (cfs)
A	393,945.00	9.044	0.0141	84.47	0.281	0.169	18.43	36.31	50.27	77.44
B	504,487.00	11.581	0.0181	84.00	0.681	0.408	16.44	32.71	45.46	70.31
Confluence Point A - Outfall							26.26	53.02	74.21	115.72
C	196,632.00	4.514	0.0071	81.99	0.462	0.277	7.10	14.57	20.46	31.98
D	55,240.00	1.268	0.0020	89.00	0.348	0.209	2.83	5.21	7.04	10.62
North Driveway*	11,892.00	0.273	0.0004	89.00	0.193	0.116	0.76	1.40	1.89	2.85
South Driveway**	128,651.00	2.953	0.0046	81.99	0.462	0.277	4.65	9.53	13.39	20.92

*The North Driveway drainage area is immediately adjacent to Drainage Area D and has the same assumptions as Drainage Area D other than the Area and Time of Concentration
 **The South Driveway drainage area is a subbasin of Drainage Area C and and has the same assumptions as Drainage Area C other than the Area.

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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FACILITY:
DRIPPING SPRINGS RANCH PARK

PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

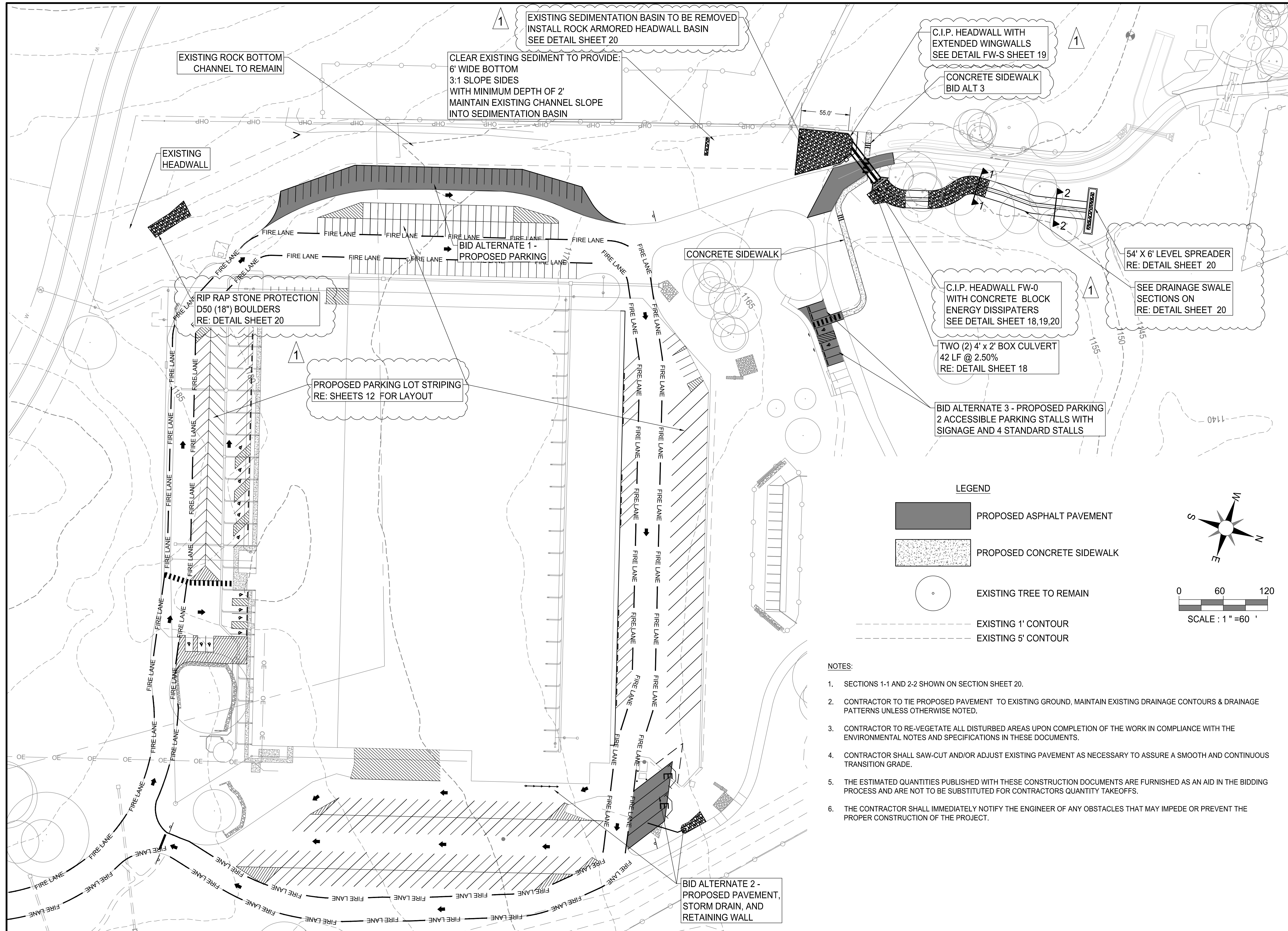


DESIGN:BL CHECKED:CG/RB

DATE: 02/09/2022

PROJ # PARKS-2022-01

OVERALL DRAINAGE AREA MAP
SHEET 09 OF 20



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GILPIN
ENGINEERING COMPANY

T.B.P.L.S. Firm Registration # 10193770
T.B.P.E. Firm Registration # F-9266
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

ENGINEER'S SEAL:

03/02/22

FACILITY:

**DRIPPING SPRINGS
RANCH PARK**

PROJECT:

**RANCH HOUSE
ROAD PHASE 1 &
DSRP RE-STRIPING
PROJECT**

**DIPPING SPRINGS
Texas**
Open spaces. friendly faces.

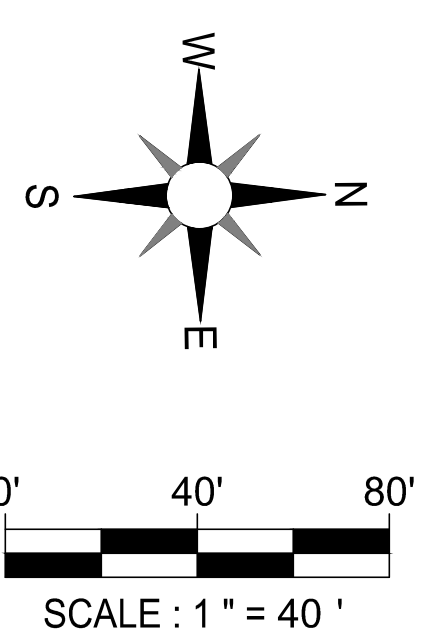
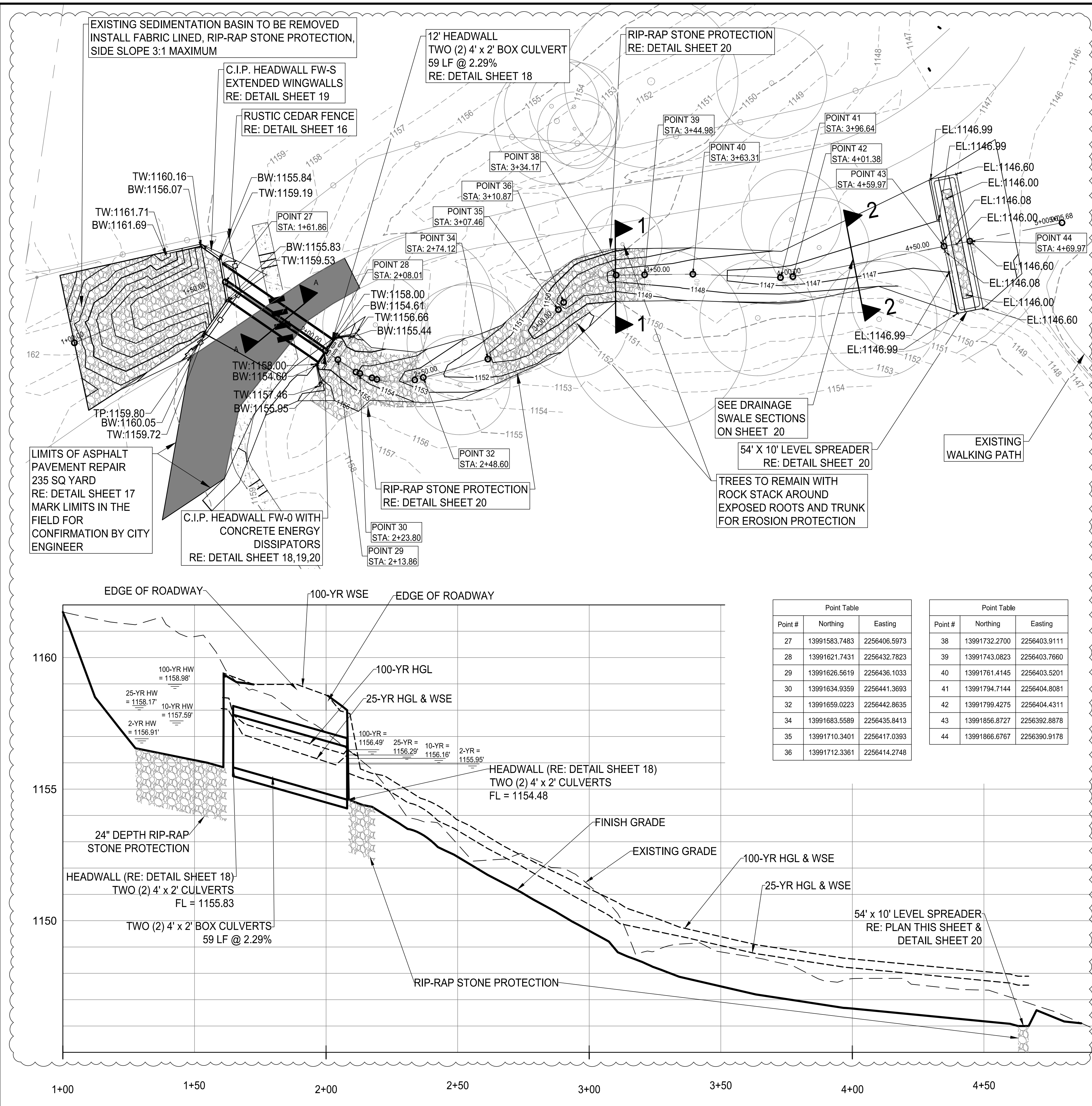
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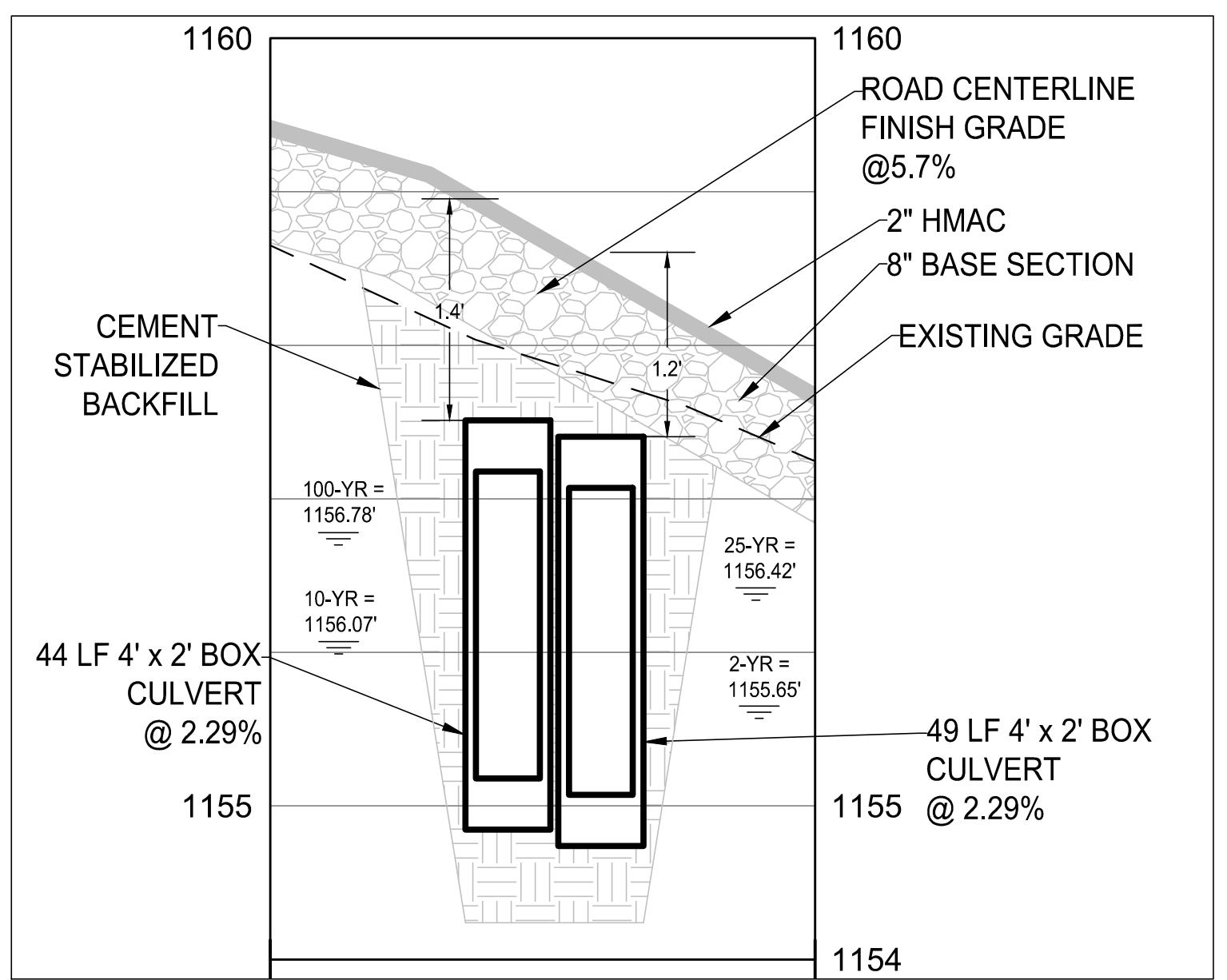
OVERALL SITE PLAN

**SHEET
10 OF 20**



LEGEND

- TW = TOP OF WALL ELEVATION
- BW = BOTTOM OF WALL ELEVATION
- TP = TOP OF PAVEMENT
- EL = FINISH ELEVATION
- EXISTING TREE TO REMAIN
- EXISTING 1' CONTOUR
- EXISTING 5' CONTOUR
- PROPOSED 1' CONTOUR
- PROPOSED 5' CONTOUR
- TREE PROTECTION
- LIMITS OF CONSTRUCTION



SECTION A-A
SCALE: 1"=20'

NOTES:

1. FILL AROUND CULVERT TRENCH SECTION TO BE CEMENT-STABILIZED BACKFILL. BACKFILL THE EXCAVATION TO THE ELEVATIONS SHOWN WITH CEMENT-STABILIZED BACKFILL. USE CEMENT-STABILIZED BACKFILL THAT CONTAINS AGGREGATE, WATER, AND A MINIMUM OF 7% HYDRAULIC CEMENT BASED ON THE DRY WEIGHT OF THE AGGREGATE, IN ACCORDANCE WITH TEX-120-E. USE CLEAN SAND AS AGGREGATE FOR CEMENT-STABILIZED BACKFILL UNLESS OTHERWISE SHOWN ON THE PLAN.
2. CONTRACTOR TO TIE PROPOSED PAVEMENT TO EXISTING GROUND, MAINTAIN EXISTING DRAINAGE CONTOURS & DRAINAGE PATTERNS UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS UPON COMPLETION OF THE WORK IN COMPLIANCE WITH THE ENVIRONMENTAL NOTES AND SPECIFICATIONS IN THESE DOCUMENTS.
4. ALL EXCESS MATERIAL SHALL BE HAULED AND DISPOSED OFFSITE.
5. CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE.
6. THE ESTIMATED QUANTITIES PUBLISHED WITH THESE CONSTRUCTION DOCUMENTS ARE FURNISHED AS AN AID IN THE BIDDING PROCESS AND ARE NOT TO BE SUBSTITUTED FOR CONTRACTORS QUANTITY TAKEOFFS.
7. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THE PROJECT.

Point Table			Point Table		
Point #	Northing	Easting	Point #	Northing	Easting
27	13991583.7483	2256406.5973	38	13991732.2700	2256403.9111
28	13991621.7431	2256432.7823	39	13991743.0823	2256403.7660
29	13991626.5619	2256436.1033	40	13991761.4145	2256403.5201
30	13991634.9359	2256441.3693	41	13991794.7144	2256404.8081
32	13991659.0223	2256442.8635	42	13991799.4275	2256404.4311
34	13991683.5589	2256435.8413	43	13991856.8727	2256392.8878
35	13991710.3401	2256417.0393	44	13991866.6767	2256390.9178
36	13991712.3361	2256414.2748			

CULVERT SUMMARY

STORM EVENT	FLOW (CFS)	VELOCITY (FT/SEC)
2-YR	26.26	4.72
10-YR	53.02	5.97
25-YR	74.21	6.68
100-YR	115.72	7.56

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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ENGINEERING COMPANY
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T.B.P.E. Firm Registration # F-9266
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

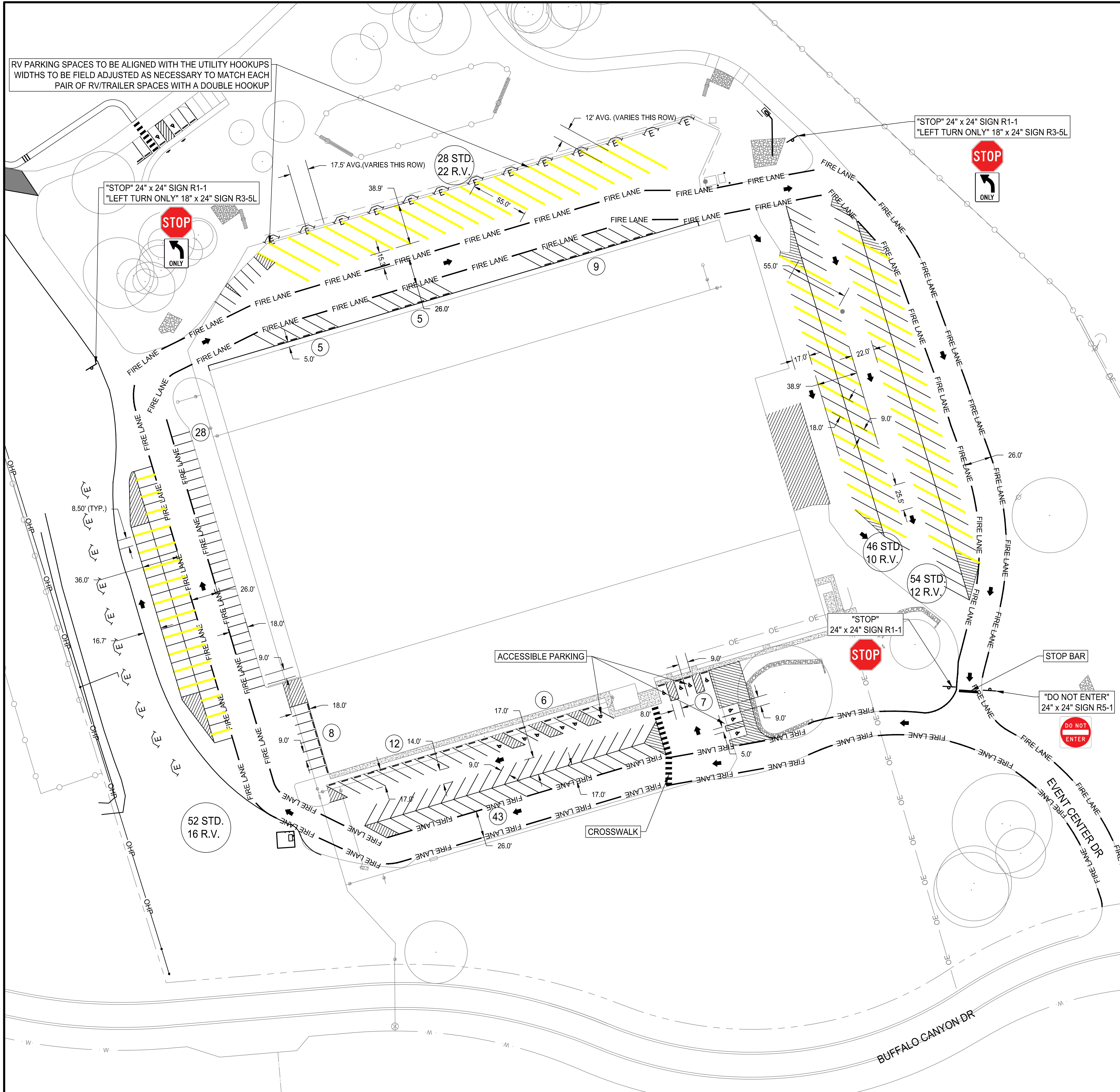
ENGINEER'S SEAL:

FACILITY:
DRIPPING SPRINGS RANCH PARK

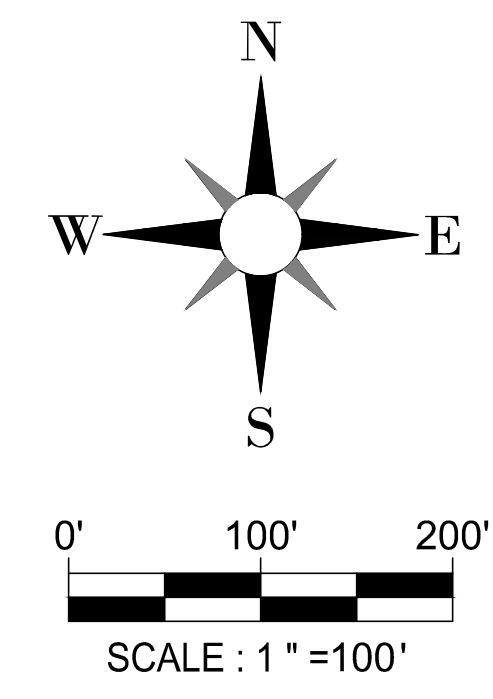
PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DESIGN: BL CHECKED: CG/RB
DATE: 02/09/2022
PROJ # PARKS-2022-01

BOX CULVERT PLAN & PROFILE
SHEET 11 OF 20



RV PARKING SPACES TO BE ALIGNED WITH THE UTILITY HOOKUPS
 WIDTHS TO BE FIELD ADJUSTED AS NECESSARY TO MATCH EACH
 PAIR OF RV/TRAILER SPACES WITH A DOUBLE HOOKUP



LEGEND

- ROW
- FIRE LANE — FIRE LANE (NO PARKING)
- PARKING STRIPE
- RV YELLOW PARKING STRIPE
- ← TRAFFIC FLOW
- ⌋ RV ELECTRICAL HOOKUP (EXIST)

	BASE BID LAYOUT	BID ALT 1	BID ALT 2	BID ALT 3	TOTAL BUILD
STANDARD PARKING	303	+40	+4	+6	353
ACCESSIBLE PARKING	13	-	-	+2	15
RV PARKING	60	+5	+4	-	69
STANDARD PARKING WITH ALL RV PARKING FULL	129	-	-	+6	134

NOTE:

- CONTRACTOR TO MARK PARKING LAYOUT FOR INSPECTION BY ENGINEER PRIOR TO INSTALLATION OF PERMANENT STRIPING.
- FIRE LANE SHALL BE MINIMUM 26 FT WIDE.



NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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 T.B.P.E. Firm Registration # F-9266
 9701 BRODIE LANE #203
 AUSTIN, TX 78748
 PH: 512.220.8100

ENGINEER'S SEAL:

FACILITY:

DRIPPING SPRINGS RANCH PARK

PROJECT:

RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DRIPPING SPRINGS
 Texas
Open spaces. friendly faces.

DESIGN: BL CHECKED: CG/RB

DATE: 02/09/2022

PROJ # PARKS-2022-01

DSRP RESTRIPIING PLAN - BASE BID

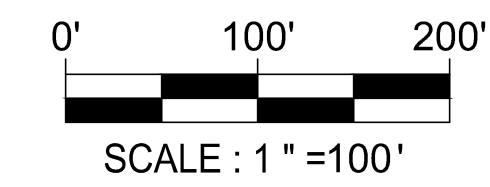
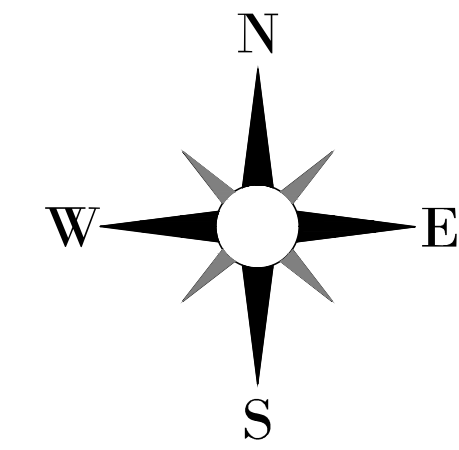
SHEET 12 OF 20

RV PARKING SPACES TO BE ALIGNED WITH THE UTILITY HOOKUPS WIDTHS TO BE FIELD ADJUSTED AS NECESSARY TO MATCH EACH PAIR OF RV/TRAILER SPACES WITH A DOUBLE HOOKUP

BID ALTERNATE 3 TO BE BID SEPARATELY

BID ALTERNATE 2 TO BE BID SEPARATELY

BID ALTERNATE 1 ADDITIONAL ASPHALT PAVING AND STRIPING



LEGEND

- ROW
- FIRE LANE
- FIRE LANE (NO PARKING)
- PARKING STRIPE
- RV YELLOW PARKING STRIPE
- ← TRAFFIC FLOW
- ⌋ RV ELECTRICAL HOOKUP (EXIST)

	BASE BID LAYOUT	BID ALT 1	BID ALT 2	BID ALT 3	TOTAL BUILD
STANDARD PARKING	303	+40	+4	+6	353
ACCESSIBLE PARKING	13	-	-	+2	15
RV PARKING	60	+5	+4	-	69
STANDARD PARKING WITH ALL RV PARKING FULL	129	-	-	+6	134

NOTE:
CONTRACTOR TO MARK PARKING LAYOUT FOR INSPECTION BY ENGINEER PRIOR TO INSTALLATION OF PERMANENT STRIPING.

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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T.B.P.E. Firm Registration # F-9266
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

ENGINEER'S SEAL:

CHAD GILPIN
91800
LICENSED PROFESSIONAL ENGINEER
03/02/22

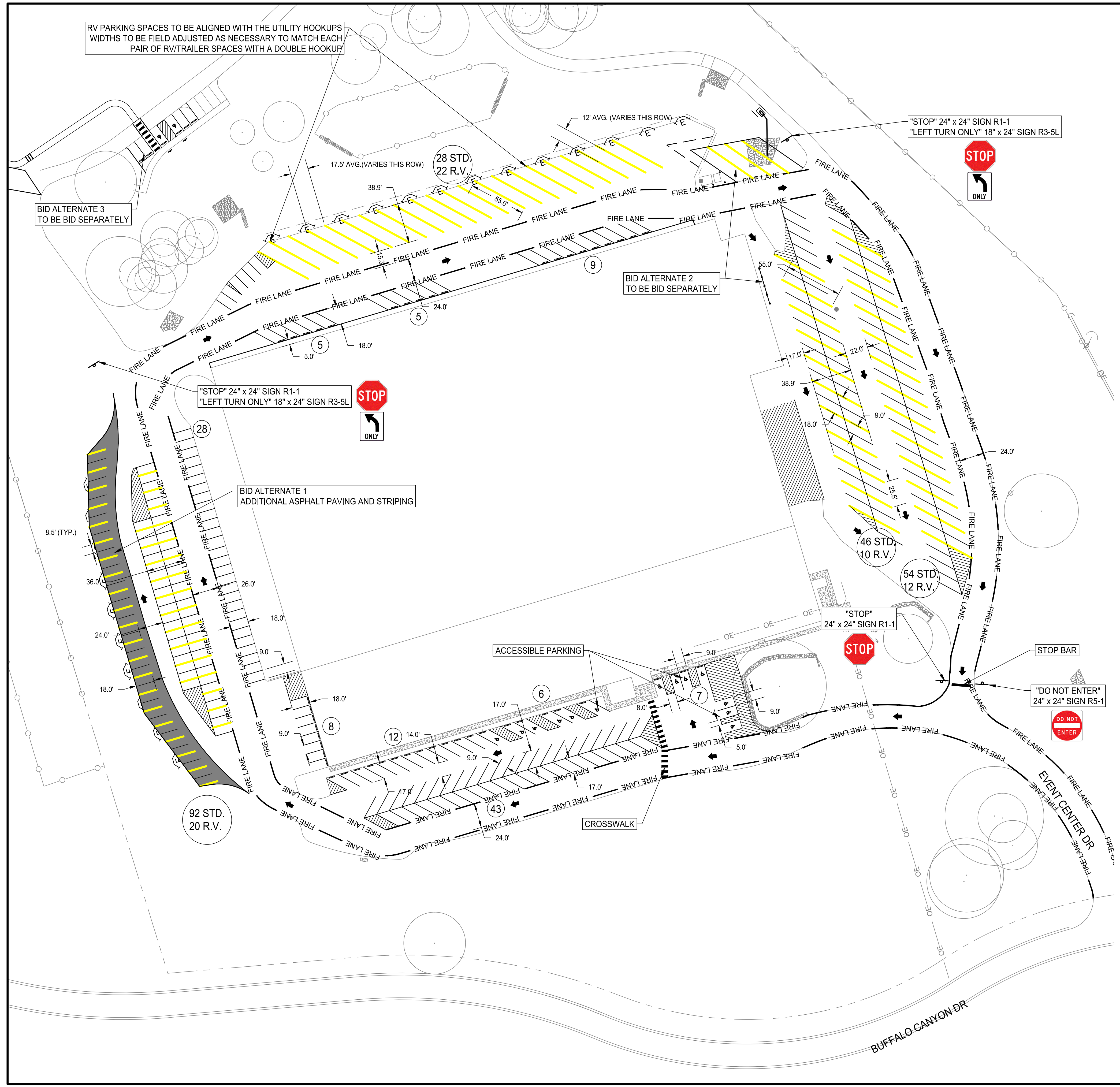
FACILITY:
DRIPPING SPRINGS RANCH PARK

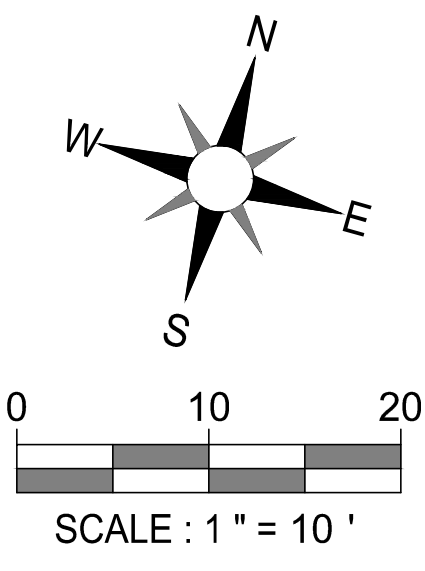
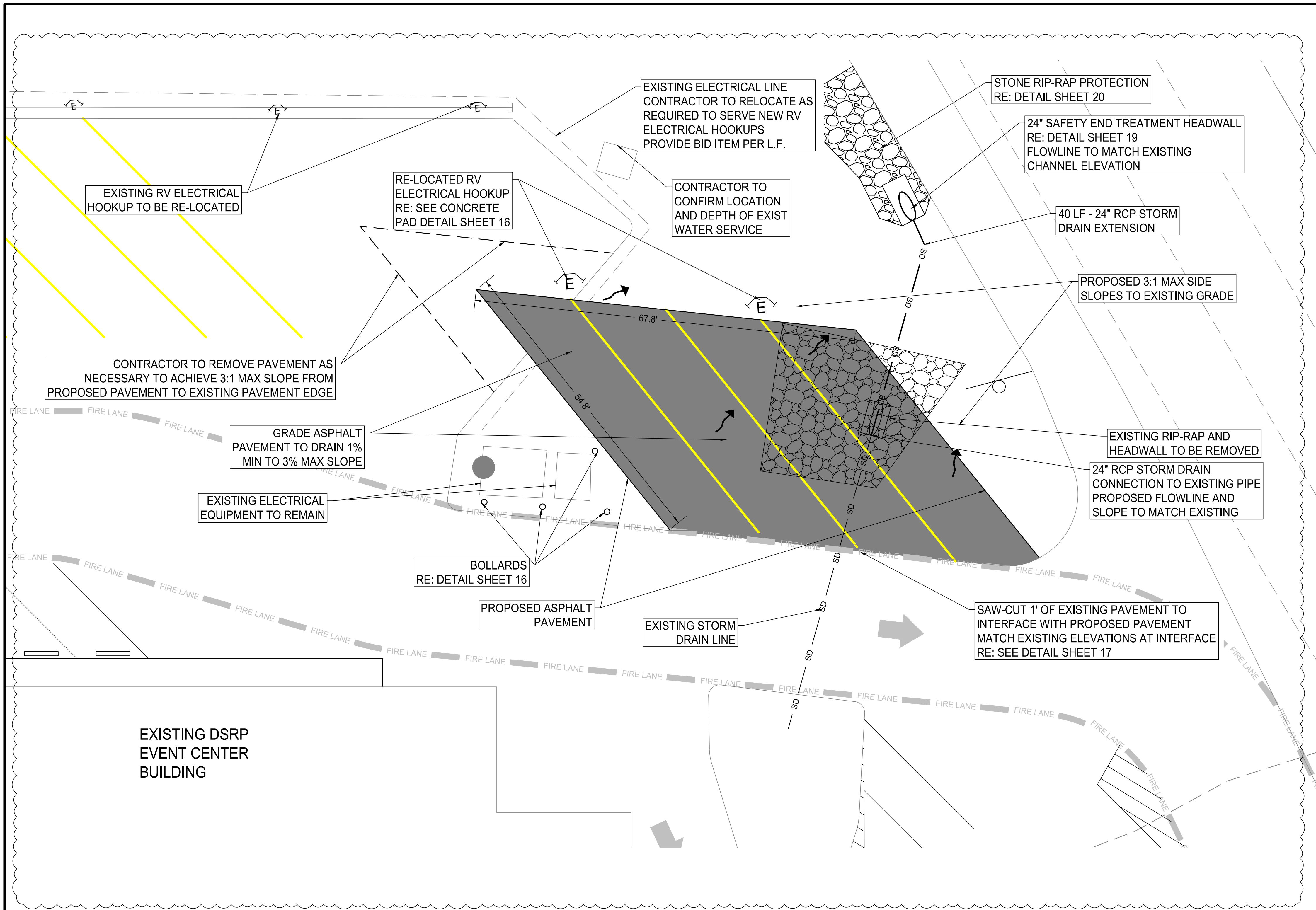
PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DRIPPING SPRINGS
Texas
Open spaces. friendly faces.

DESIGN: BL CHECKED: CG/RB
DATE: 02/09/2022
PROJ # PARKS-2022-01

BID ALT 1 - DSRP RESTRIPING PLAN
SHEET
13 OF 20





- LEGEND**
- EXISTING TREE TO REMAIN
 - PROPOSED ASPHALT PAVEMENT
 - DIRECTION OF FLOW
 - RV ELECTRICAL HOOKUP (EXIST)

NOTES:

1. ALL ELECTRICAL WORK IS TO BE DONE BY A LICENSED ELECTRICIAN AND COMPLY WITH ELECTRICAL CODE CURRENTLY ADOPTED BY THE CITY.
2. CONTRACTOR TO TIE PROPOSED PAVEMENT TO EXISTING GROUND, MAINTAIN EXISTING DRAINAGE CONTOURS & DRAINAGE PATTERNS UNLESS OTHERWISE NOTED.
3. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS UPON COMPLETION OF THE WORK IN COMPLIANCE WITH THE ENVIRONMENTAL NOTES AND SPECIFICATIONS IN THESE DOCUMENTS.
4. CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE.
5. THE ESTIMATED QUANTITIES PUBLISHED WITH THESE CONSTRUCTION DOCUMENTS ARE FURNISHED AS AN AID IN THE BIDDING PROCESS AND ARE NOT TO BE SUBSTITUTED FOR CONTRACTORS QUANTITY TAKEOFFS.
6. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THE PROJECT.

NOTE:
CONTRACTOR TO SUBMIT GRADING CUT SHEET FOR CITY APPROVAL PRIOR TO INSTALLATION OF PAVEMENT.

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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T.B.P.E. Firm Registration # F-9266
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

ENGINEER'S SEAL:

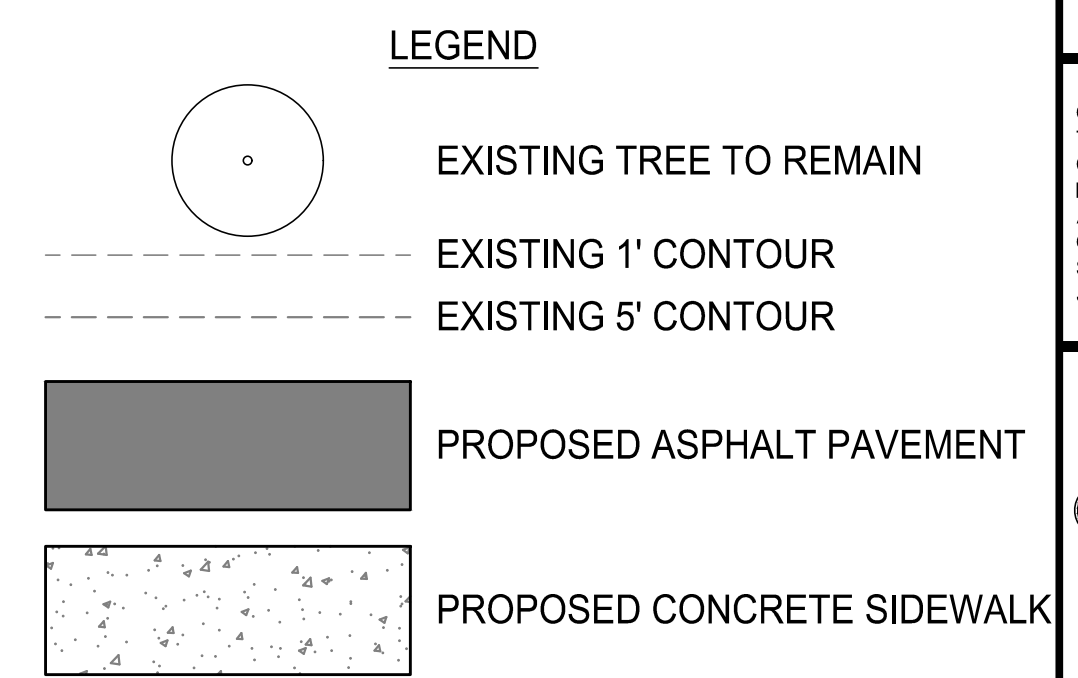
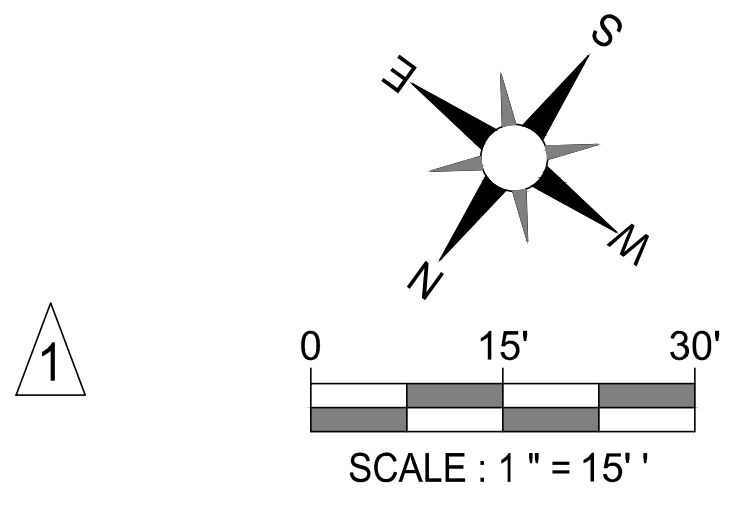
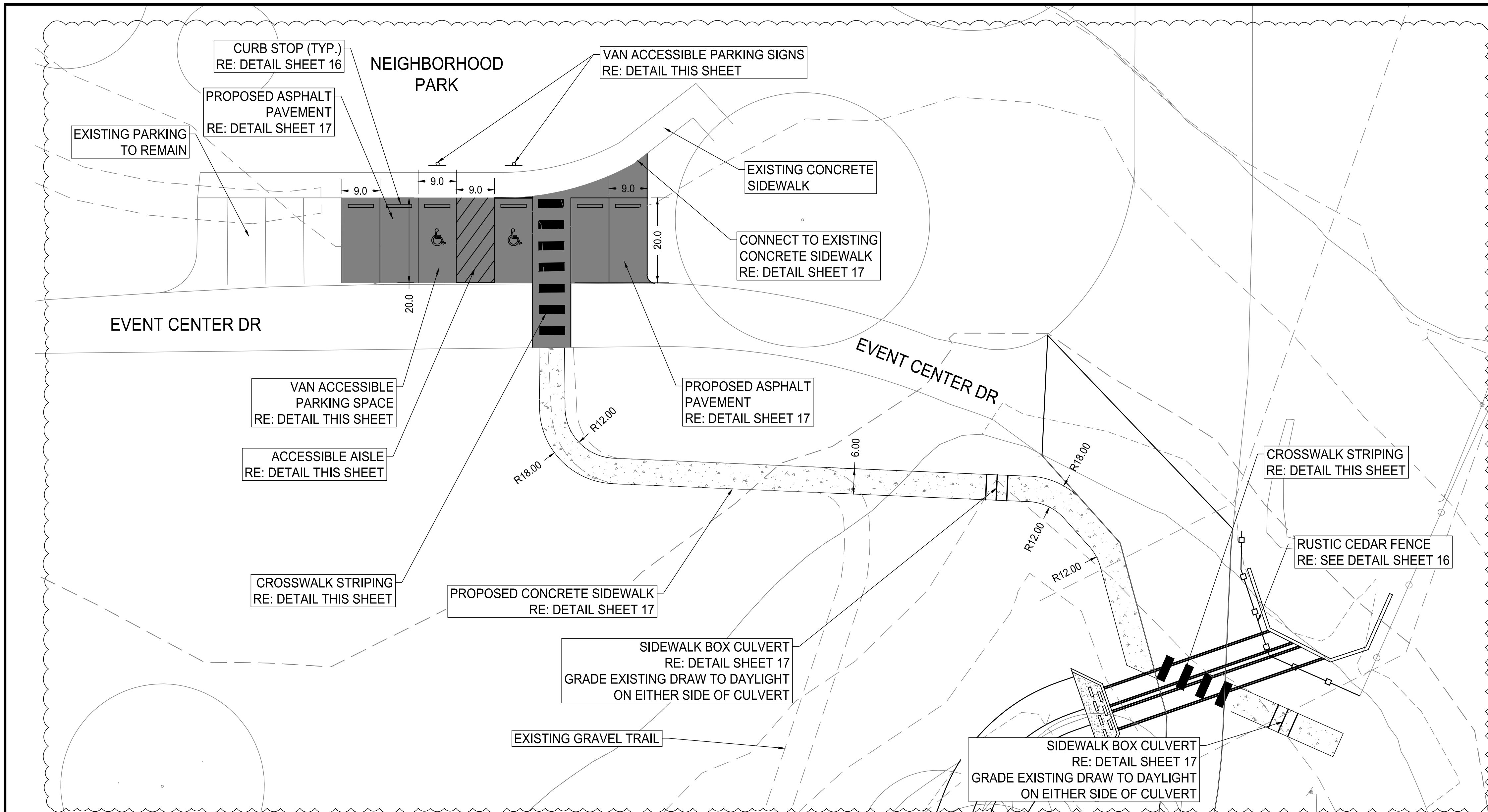
FACILITY:
DRIPPING SPRINGS RANCH PARK

PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DRIPPING SPRINGS
Texas
Open spaces. friendly faces.

DESIGN: BL CHECKED: CG/RB
DATE: 02/09/2022
PROJ # PARKS-2022-01

BID ALT 2 - NORTH RV PARKING PLAN
SHEET
14 OF 20



- NOTES:**
1. CONTRACTOR TO TIE PROPOSED PAVEMENT TO EXISTING GROUND, MAINTAIN EXISTING DRAINAGE CONTOURS & DRAINAGE PATTERNS UNLESS OTHERWISE NOTED.
 2. CONTRACTOR TO RE-VEGETATE ALL DISTURBED AREAS UPON COMPLETION OF THE WORK IN COMPLIANCE WITH THE ENVIRONMENTAL NOTES AND SPECIFICATIONS IN THESE DOCUMENTS.
 3. CONTRACTOR SHALL SAW-CUT AND/OR ADJUST EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH AND CONTINUOUS TRANSITION GRADE.
 4. THE ESTIMATED QUANTITIES PUBLISHED WITH THESE CONSTRUCTION DOCUMENTS ARE FURNISHED AS AN AID IN THE BIDDING PROCESS AND ARE NOT TO BE SUBSTITUTED FOR CONTRACTORS QUANTITY TAKEOFFS.
 5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY OBSTACLES THAT MAY IMPEDE OR PREVENT THE PROPER CONSTRUCTION OF THE PROJECT.

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1	ADDENDUM #1	03/02/22

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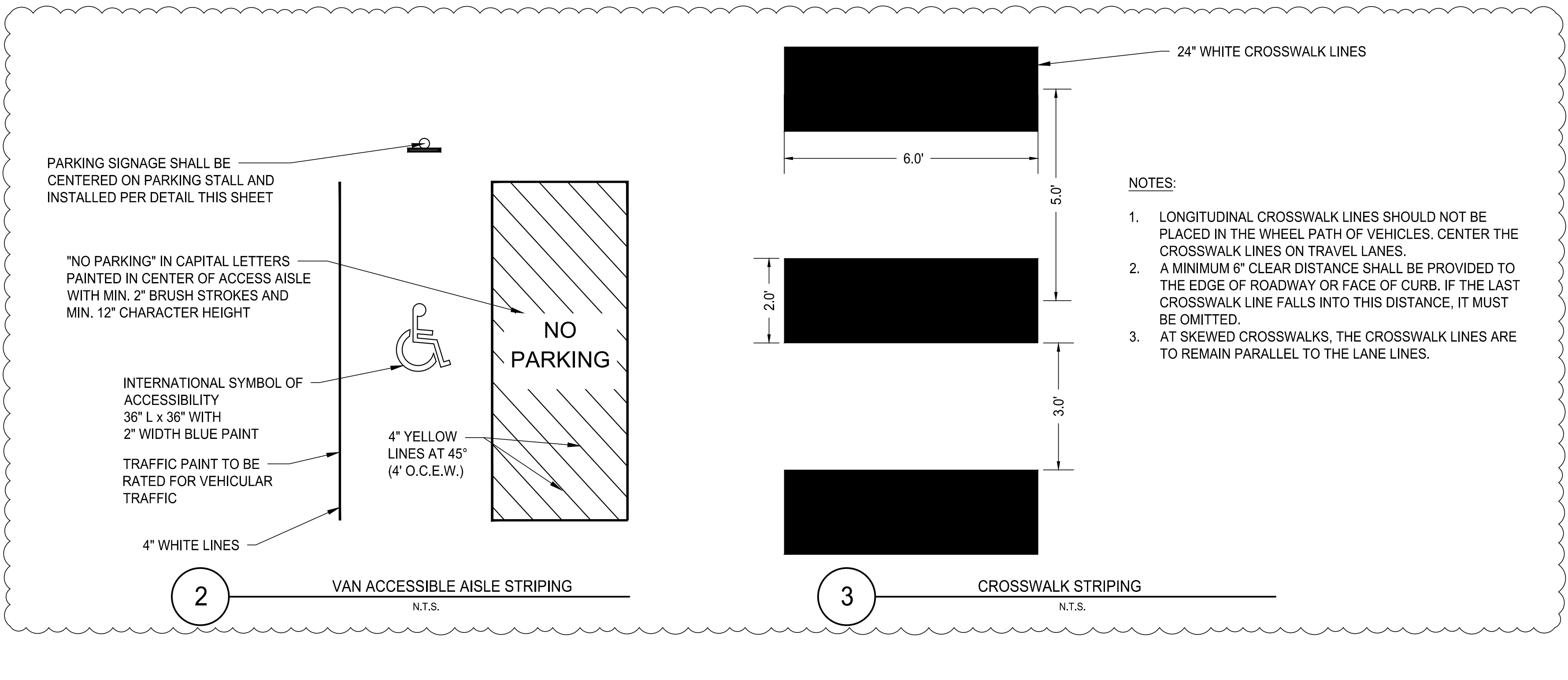
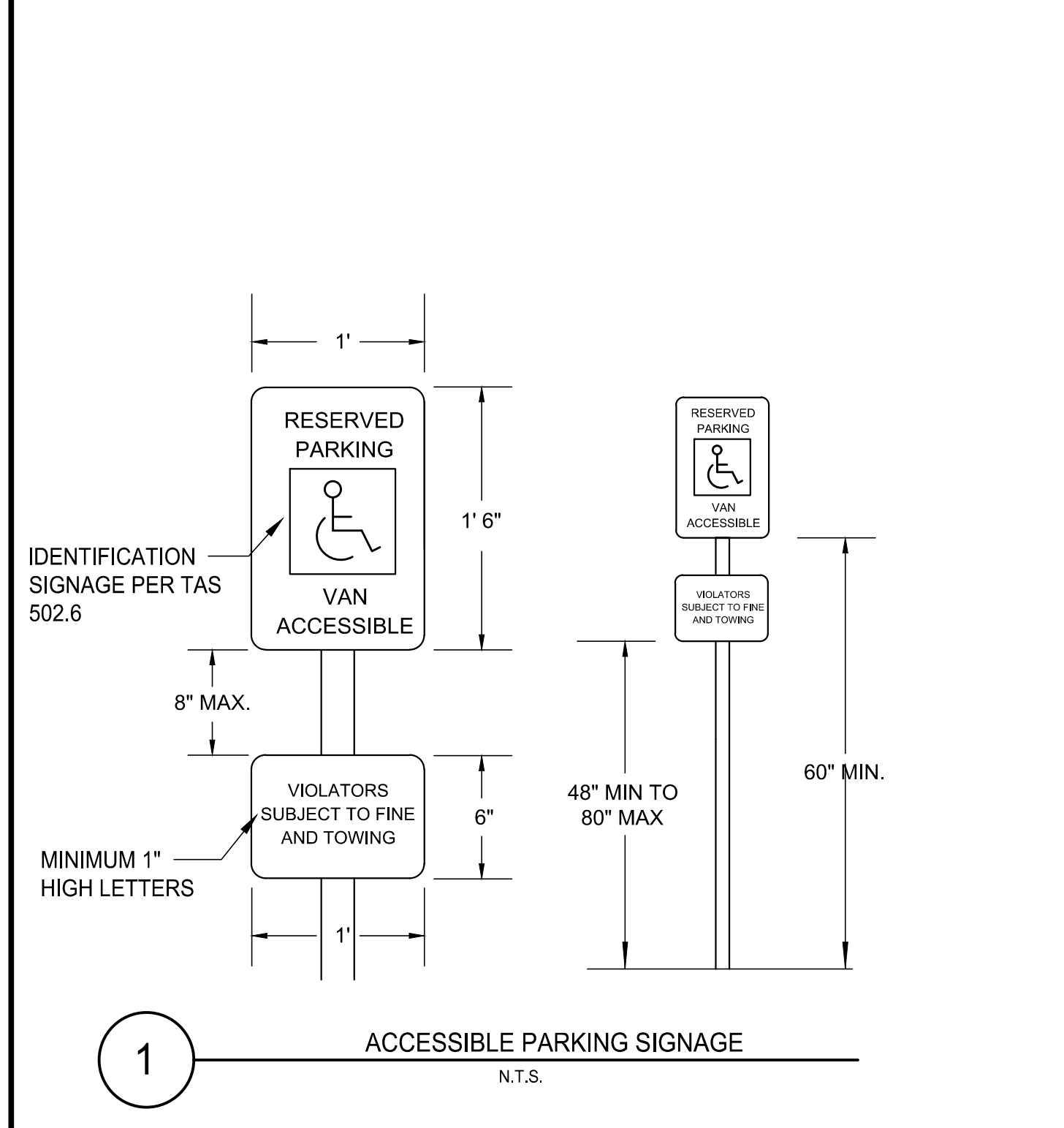
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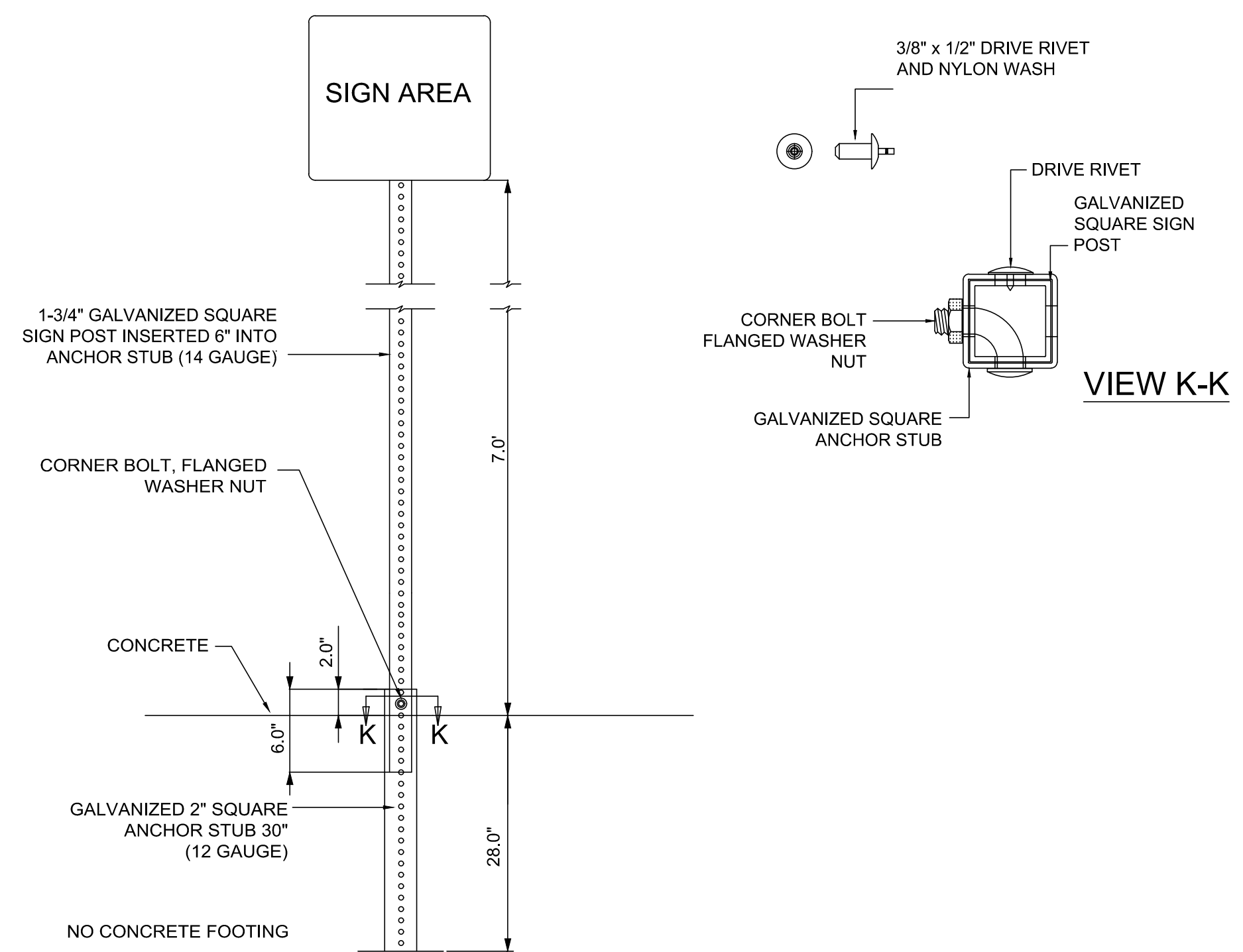
FACILITY:
DRIPPING SPRINGS RANCH PARK

PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

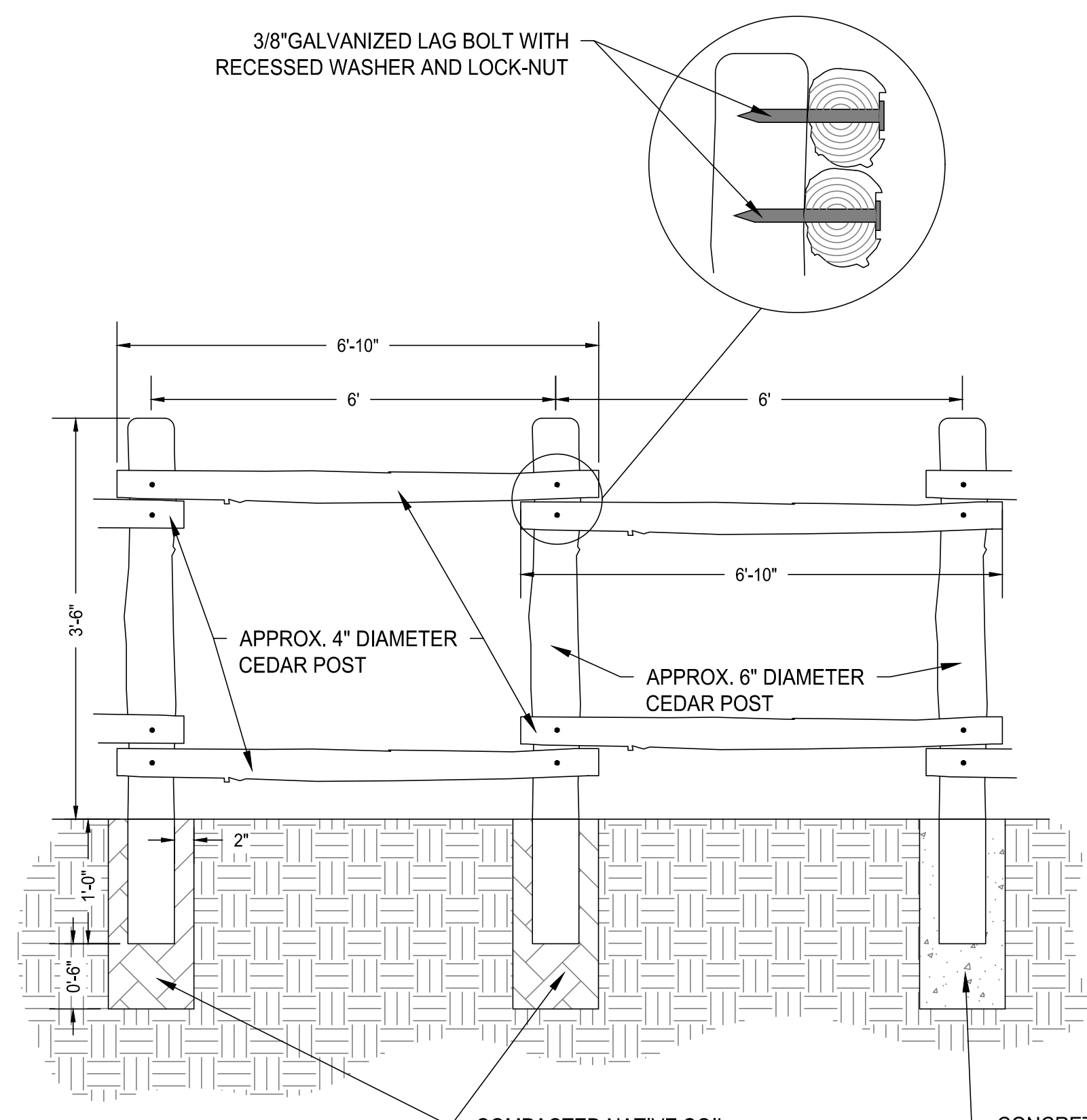
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DATE: 02/09/2022
PROJ # PARKS-2022-01

BID ALT 3 - ACCESSIBLE PARKING
SHEET 15 OF 20



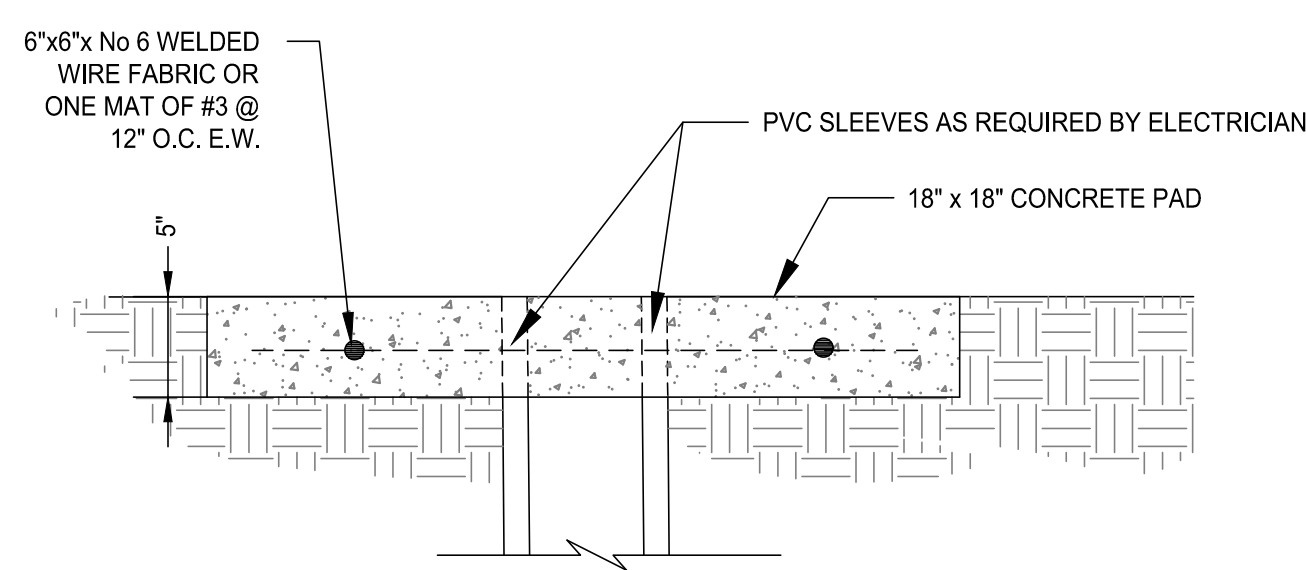


TRAFFIC SIGN POST - CONCRETE
N.T.S.

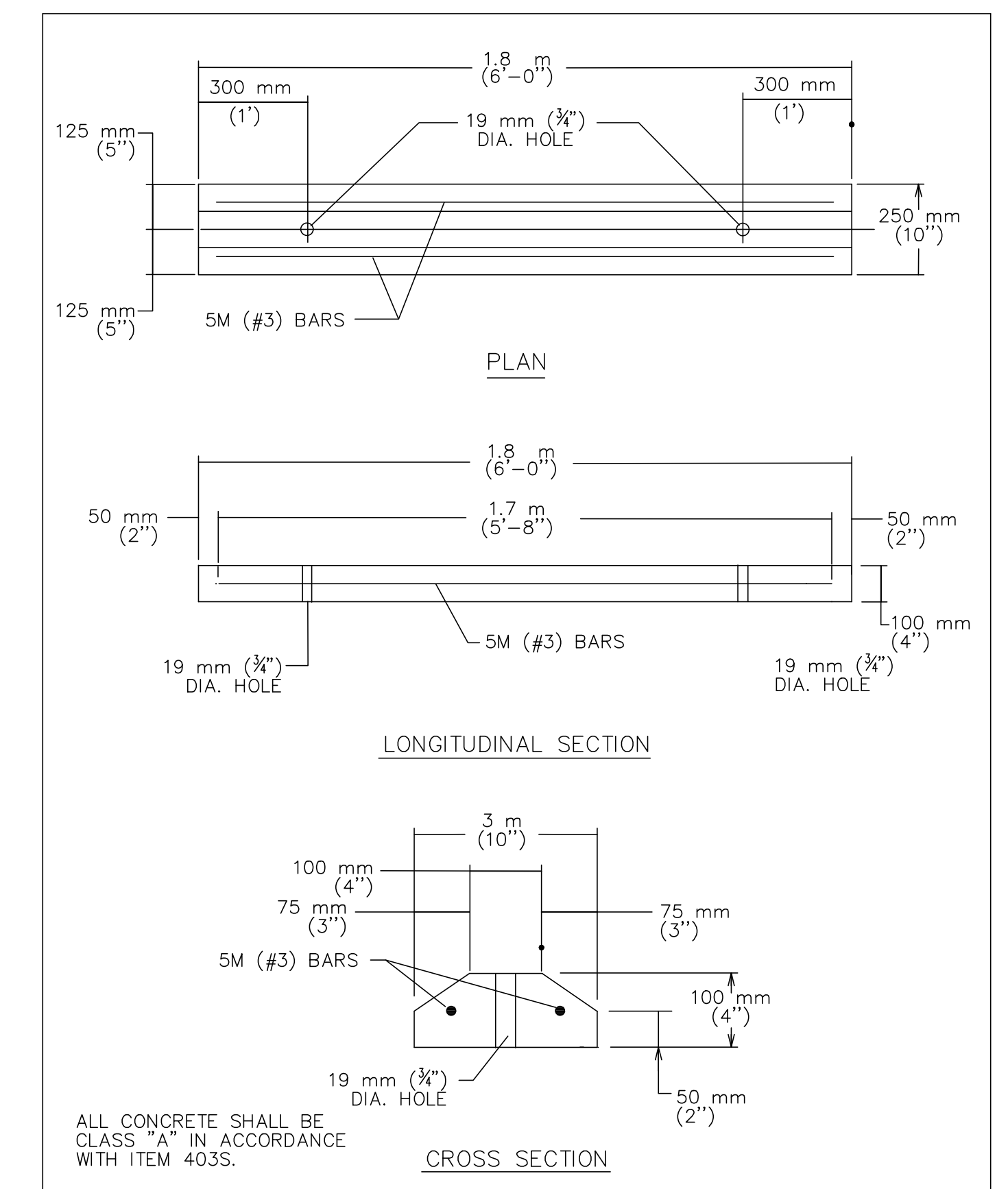


RUSTIC CEDAR FENCE
N.T.S.

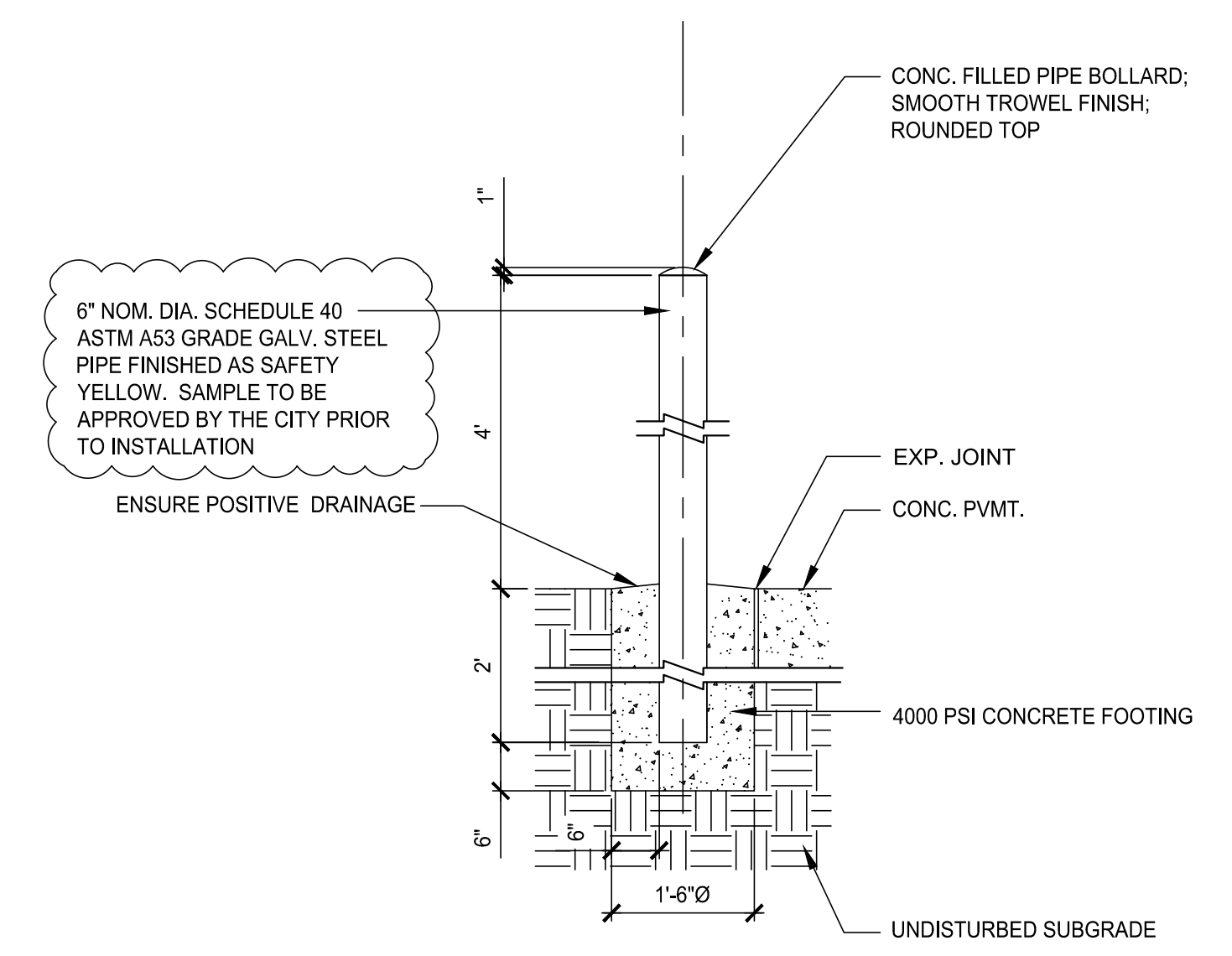
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CONCRETE PAD - RV ELECTRICAL HOOKUP
N.T.S.



CITY OF AUSTIN DEPARTMENT OF PUBLIC WORKS		PARKING LOT BUMPER CURB	
RECORD COPY SIGNED BY BILL GARDNER	3/15/05	THE ARCHITECT/ENGINEER ASSUMES RESPONSIBILITY FOR APPROPRIATE USE OF THIS STANDARD.	STANDARD NO. 439S-1
APPROVED		ADOPTED	



BOLLARD
N.T.S.

NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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ENGINEERING COMPANY

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T.B.P.E. Firm Registration # F-9286
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

ENGINEER'S SEAL:

03/02/22

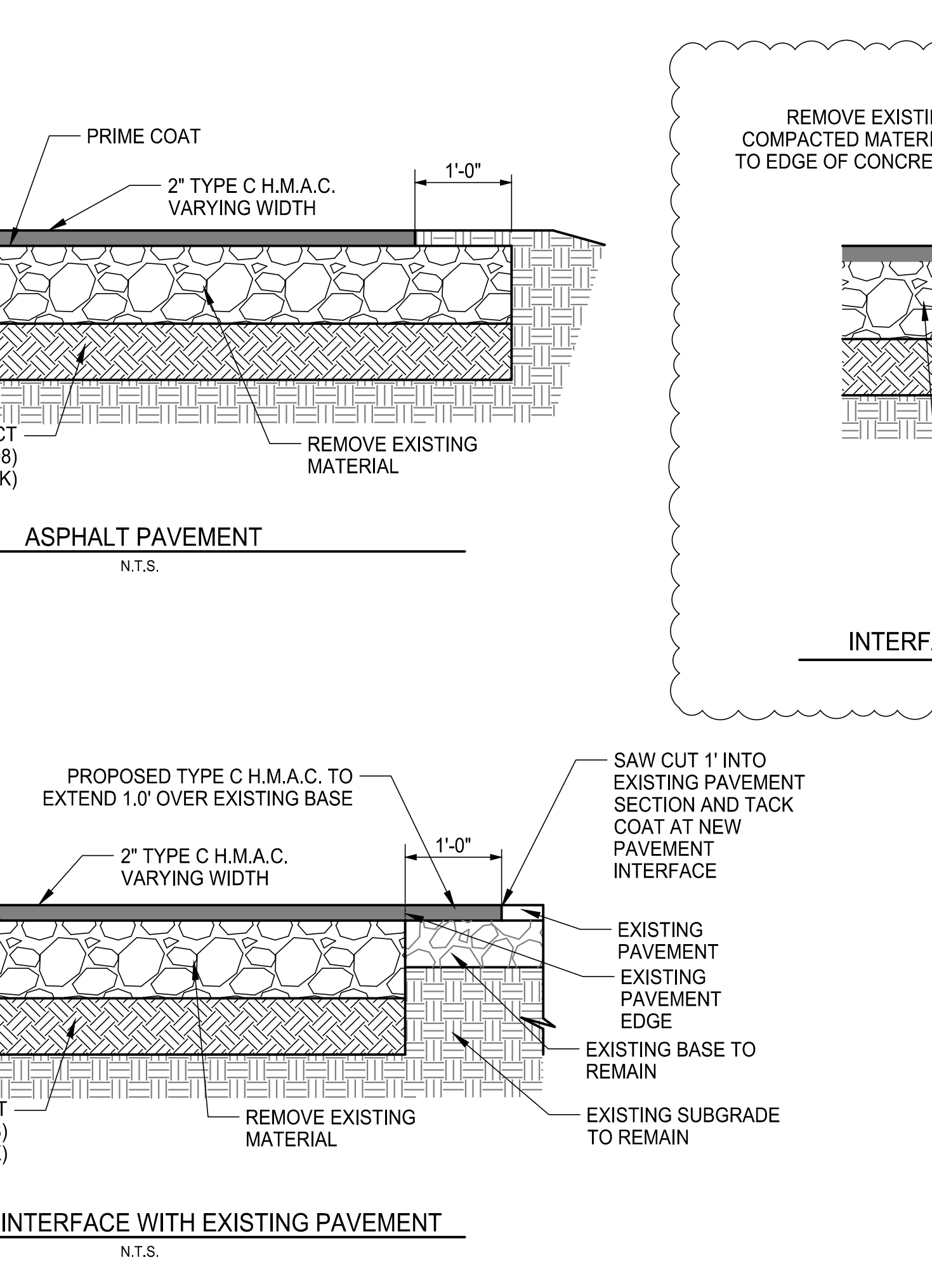
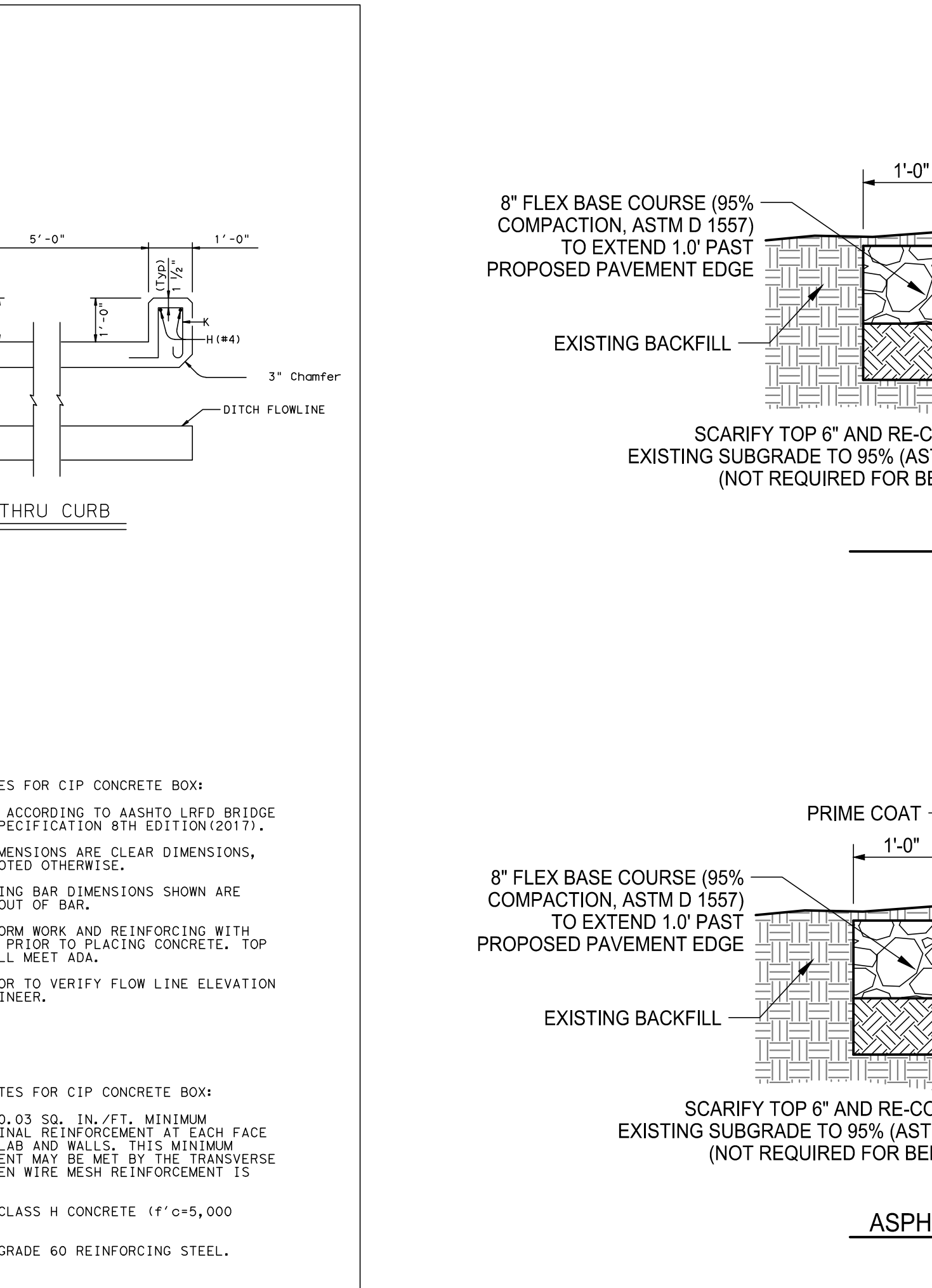
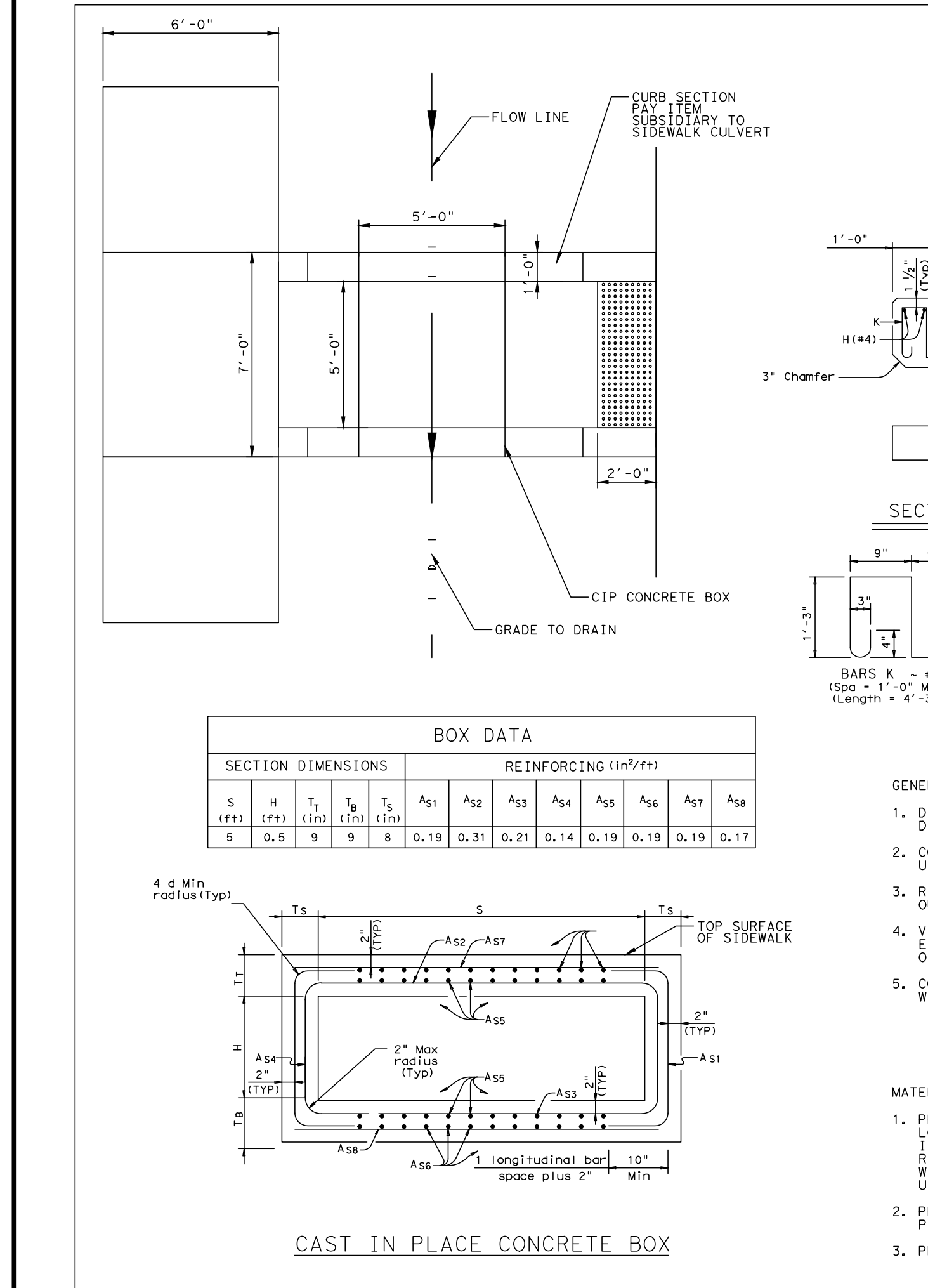
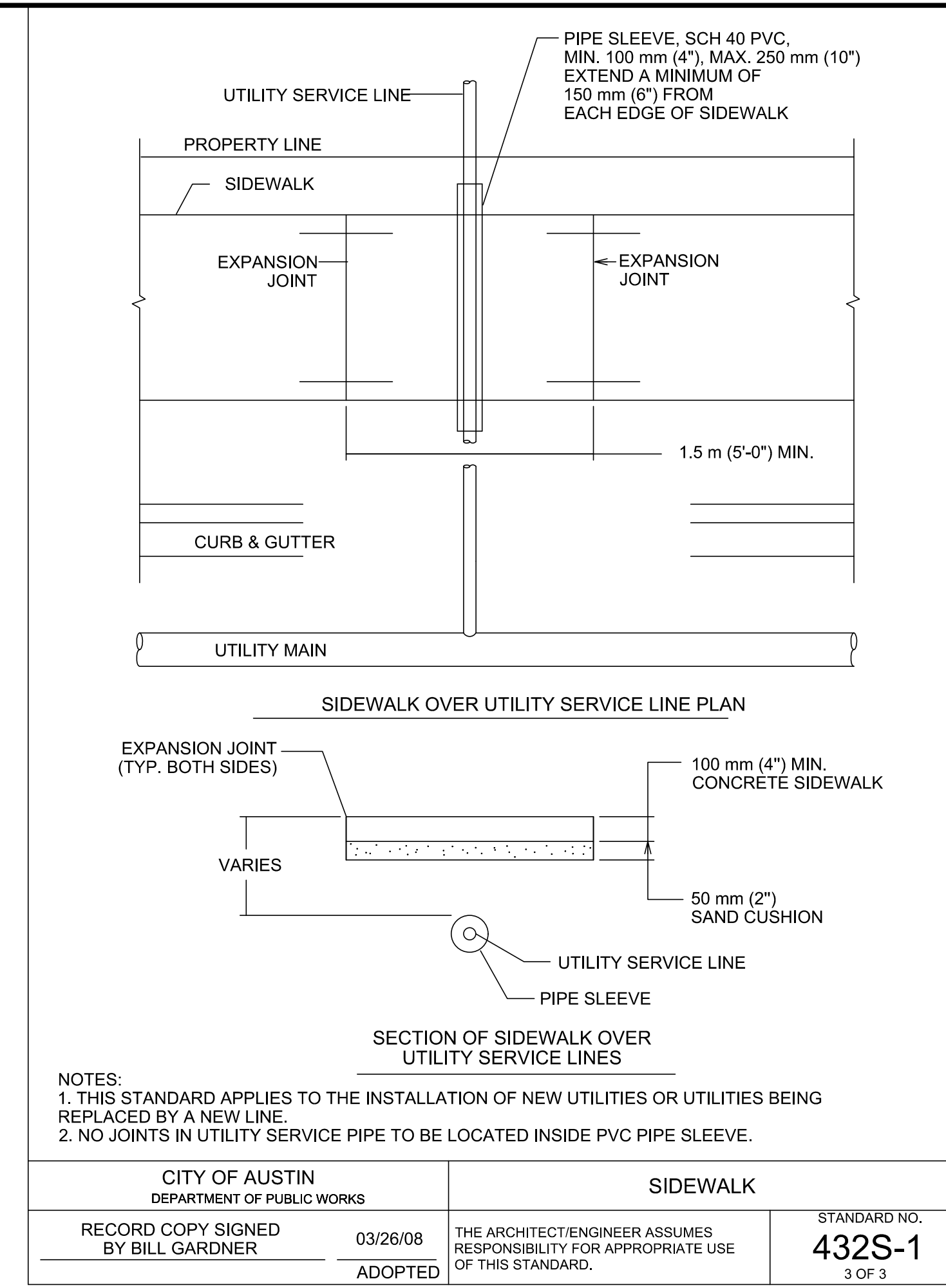
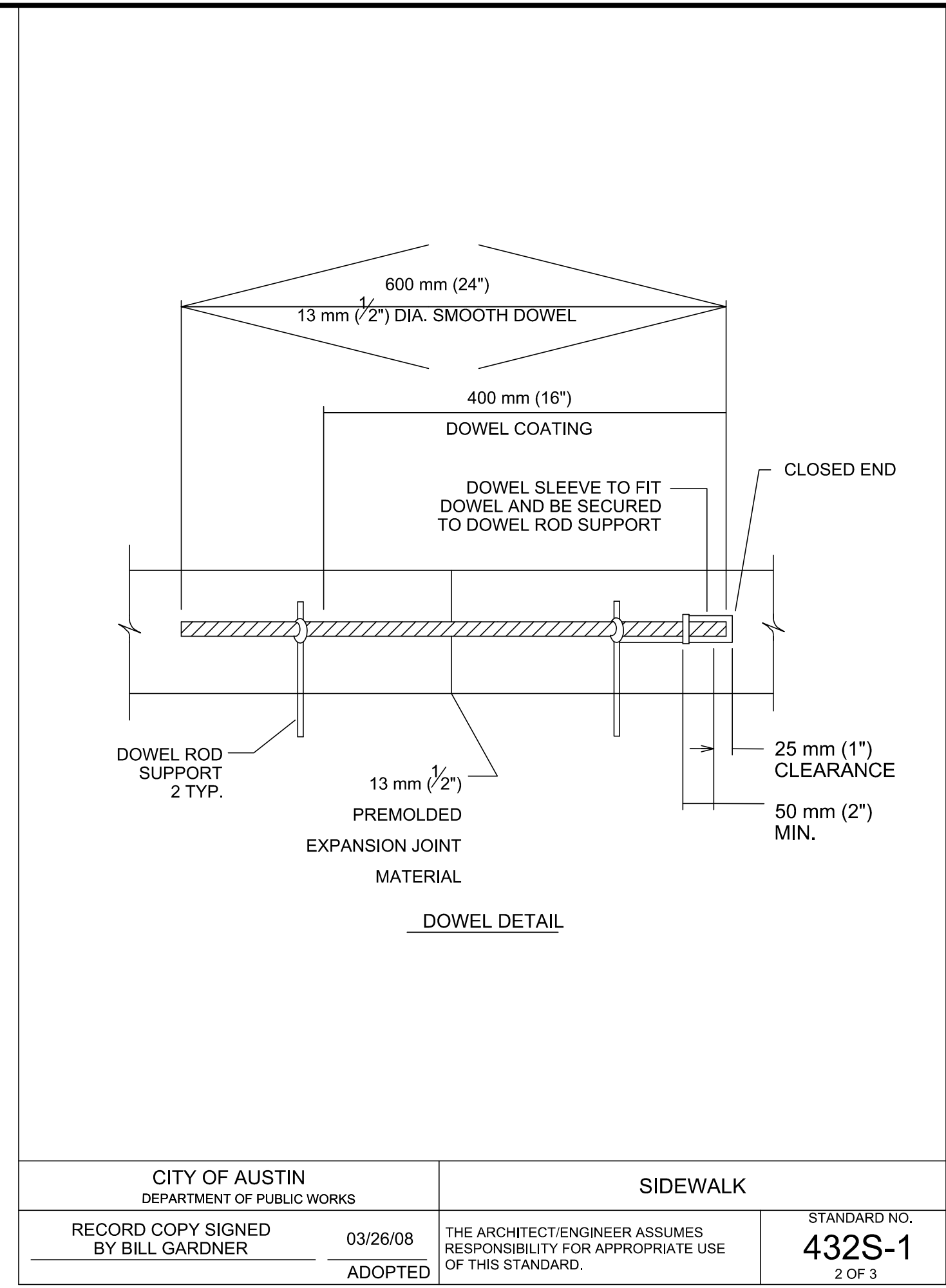
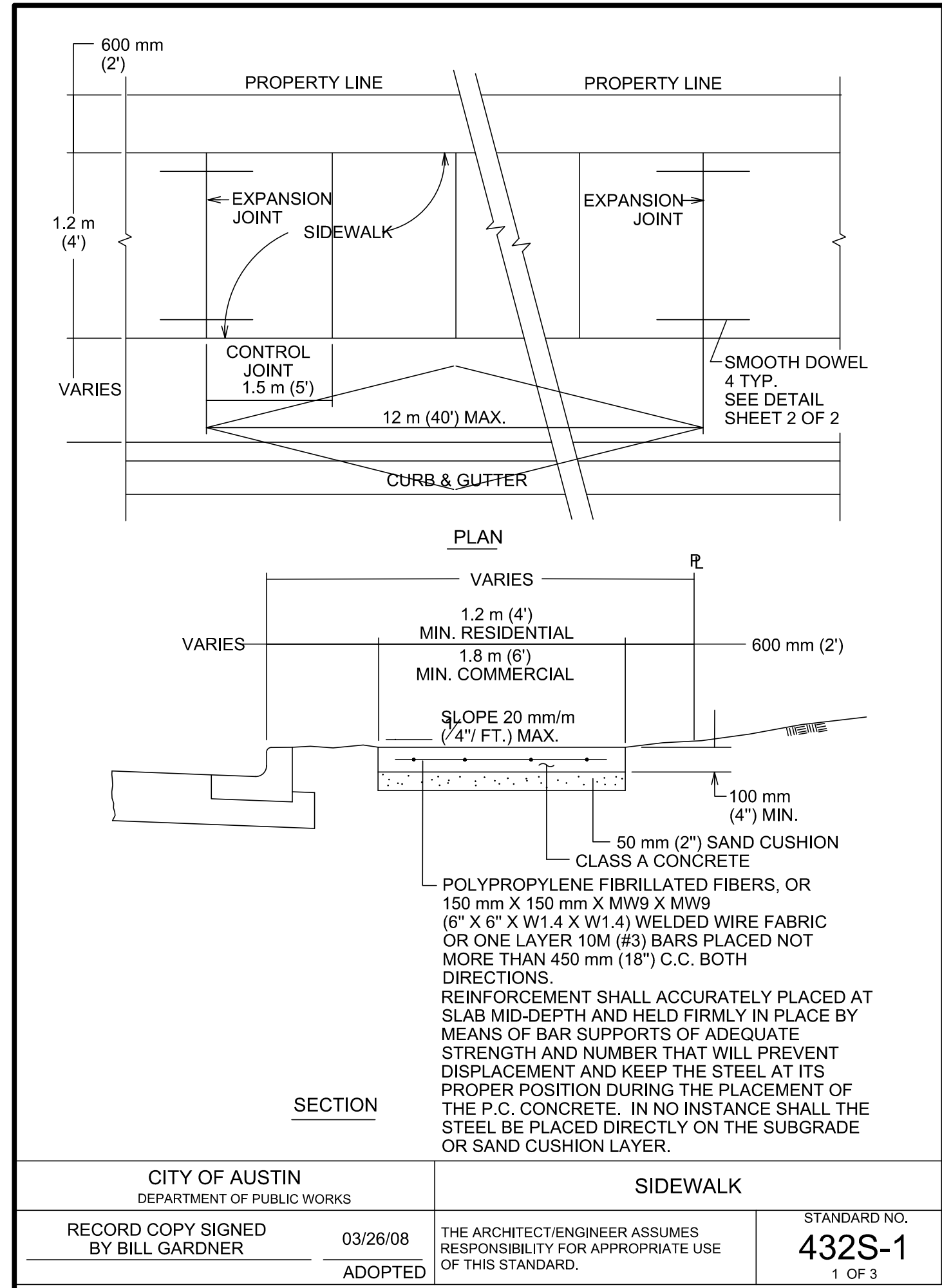
FACILITY:
**DRIPPING SPRINGS
RANCH PARK**

PROJECT:
**RANCH HOUSE
ROAD PHASE 1 &
DSRP RE-STRIPING
PROJECT**

DRIPPING SPRINGS
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DESIGN: BL CHECKED: CG/RB
DATE: 02/09/2022
PROJ # PARKS-2022-01

SITE DETAILS
SHEET
16 OF 20



NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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03/02/22

FACILITY:
DRIPPING SPRINGS RANCH PARK

PROJECT:
RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DESIGN: BL CHECKED: CG/RB

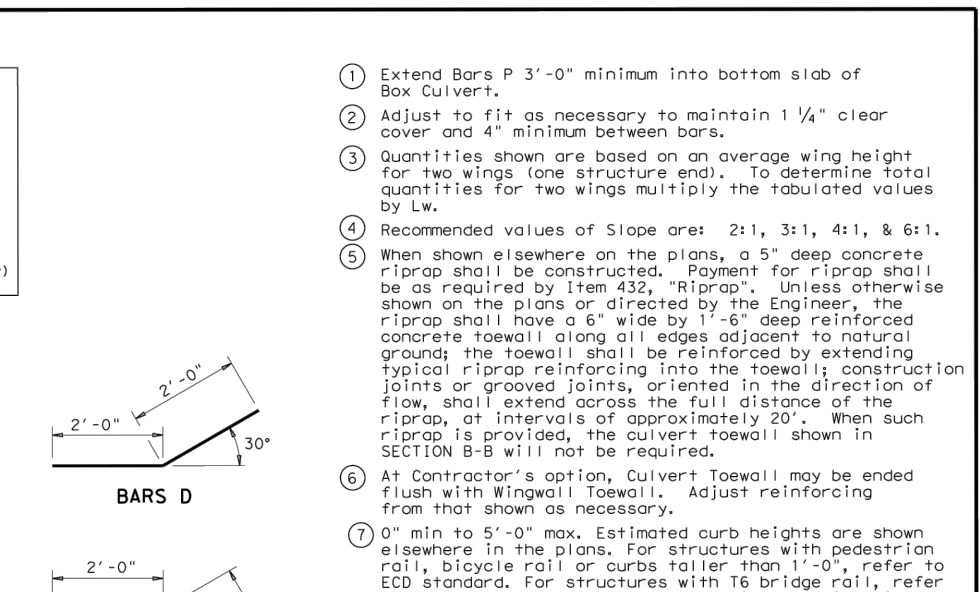
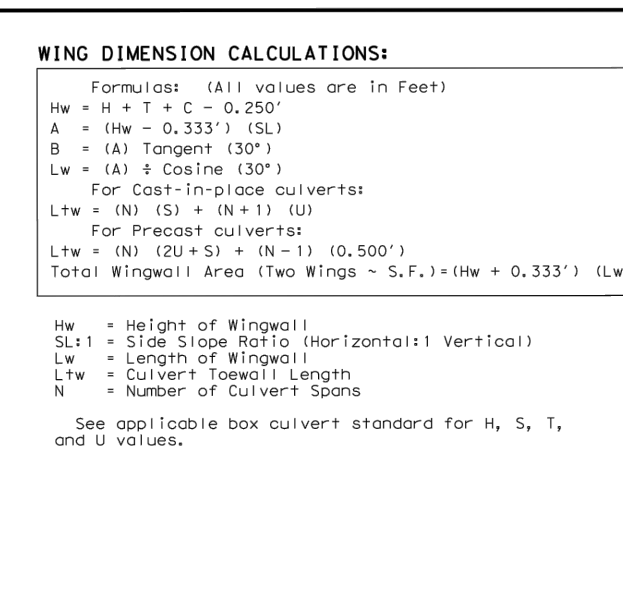
DATE: 02/09/2022

PROJ # PARKS-2022-01

PAVING DETAILS
SHEET 17 OF 20

TABLE OF DIMENSIONS & REINFORCING STEEL (Wings for One Structure End)										
Dimensions		Variable Reinforcing		Estimated Quantities per Ft. of Wing Length		TABLE OF WINGWALL REINFORCING (2-WINGS)				
Maximum Wing Height (ft)	W	X	Y	Z	Bars J1	Bars J2	Bar Size	No.	Spa	
2'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	33.73	0.248
3'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	37.07	0.261
3'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	37.74	0.273
4'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	38.41	0.285
4'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	41.75	0.335
5'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	45.75	0.355
6'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	46.42	0.367
7'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	52.77	0.414
8'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	60.19	0.486
9'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	69.49	0.535
10'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	79.25	0.584
11'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	89.65	0.634
12'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	100.29	0.721
13'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	111.80	0.856
14'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	124.78	0.951
15'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	138.06	1.058
16'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	151.92	1.234

TABLE OF ESTIMATED CULVERT TOWELL QUANTITIES										
Dimensions		Variable Reinforcing		Estimated Quantities per Ft. of Wing Length		TABLE OF WINGWALL REINFORCING (2-WINGS)				
Maximum Wing Height (ft)	W	X	Y	Z	Bars J1	Bars J2	Bar Size	No.	Spa	
2'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	33.73	0.248
3'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	37.07	0.261
3'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	37.74	0.273
4'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	38.41	0.285
4'-6"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	41.75	0.335
5'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	45.75	0.355
6'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	46.42	0.367
7'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	52.77	0.414
8'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	60.19	0.486
9'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	69.49	0.535
10'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	79.25	0.584
11'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	89.65	0.634
12'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	100.29	0.721
13'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	111.80	0.856
14'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	124.78	0.951
15'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	138.06	1.058
16'-0"	2'-5 1/2"	1'-0"	9"	7"	#4	#4	#4	11'-0"	151.92	1.234



GENERAL NOTES:

Designed according to AASHTO LRFD Specifications. All reinforcing steel shall be Grade 60. Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing bars shall be adjusted to provide a minimum of 1" clear cover.

When structure is founded on soft soil, depth of toe wall for culverts and wing walls may be reduced or eliminated as directed by the Engineer.

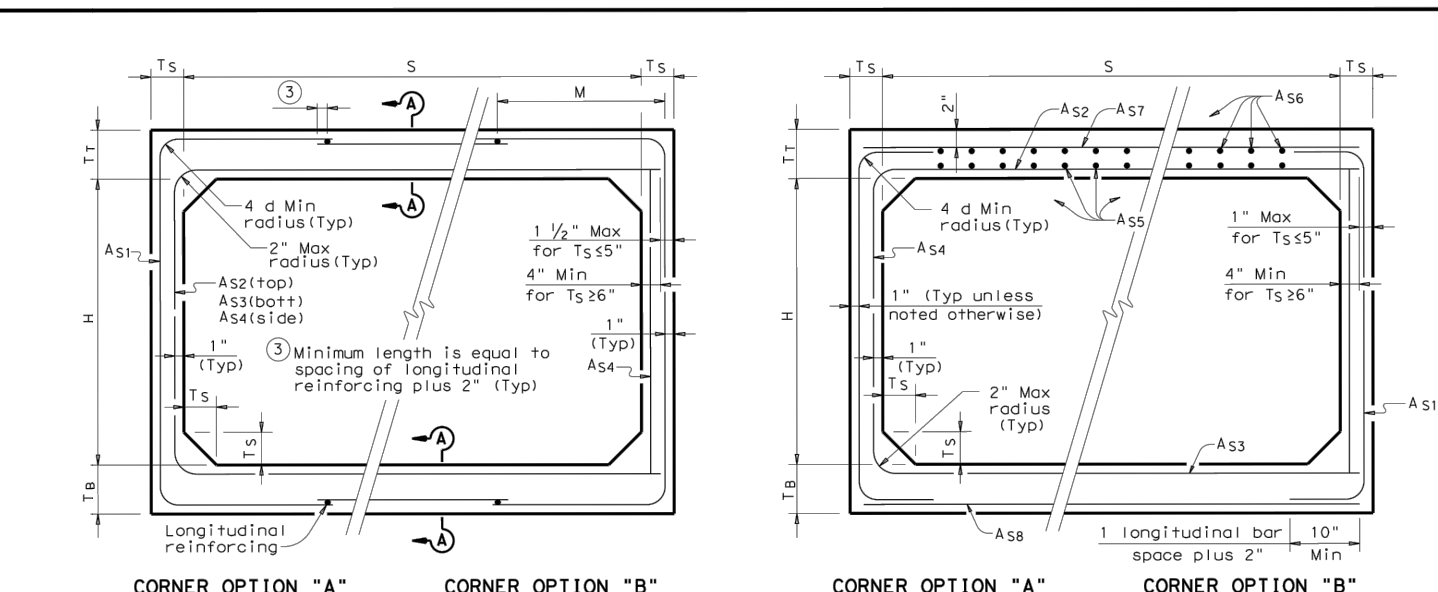
See BCJ sheet for additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation
 Bridge Division Standard
CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS
 FW-0

Rev	Date	By	App	Checked	Reviewed
01/00	February 2000

SECTION DIMENSIONS		BOX DATA													
S (ft)	H (ft)	T ₁ (in)	T ₂ (in)	T ₃ (in)	T ₄ (in)	M (in)	REINFORCING (lb/ft)								LIFT (ft)
							A ₅₁	A ₅₂	A ₅₃	A ₅₄	A ₅₅	A ₅₆	A ₅₇	A ₅₈	W ₅
4	2	5	5	5	5	42	0.18	0.27	0.15	0.12	0.18	0.18	0.18	0.14	4.5
4	2	5	5	5	5	23	38	0.18	0.19	0.17	0.12	-	-	-	3.6
4	2	5	5	5	5	3-5	38	0.13	0.13	0.13	0.12	-	-	-	3.6
4	2	5	5	5	10	38	0.12	0.12	0.12	0.12	-	-	-	-	3.6
4	2	5	5	5	15	38	0.14	0.16	0.16	0.12	-	-	-	-	3.6
4	2	5	5	5	20	38	0.18	0.20	0.21	0.12	-	-	-	-	3.6
4	2	5	5	5	25	38	0.23	0.25	0.25	0.12	-	-	-	-	3.6
4	2	5	5	5	30	38	0.28	0.30	0.30	0.12	-	-	-	-	3.6
4	3	5	6	5	42	-	0.18	0.31	0.18	0.12	0.18	0.18	0.18	0.14	5.0
4	3	5	5	5	23	38	0.15	0.23	0.20	0.12	-	-	-	-	4.1
4	3	5	5	5	3-5	38	0.12	0.16	0.16	0.12	-	-	-	-	4.1
4	3	5	5	5	10	38	0.12	0.14	0.14	0.12	-	-	-	-	4.1
4	3	5	5	5	15	38	0.12	0.18	0.18	0.12	-	-	-	-	4.1
4	3	5	5	5	20	38	0.14	0.23	0.24	0.12	-	-	-	-	4.1
4	3	5	5	5	25	38	0.17	0.29	0.29	0.12	-	-	-	-	4.1
4	3	5	5	5	30	38	0.21	0.35	0.35	0.12	-	-	-	-	4.1
4	4	5	6	5	42	-	0.18	0.33	0.20	0.12	0.18	0.18	0.18	0.14	5.5
4	4	5	5	5	23	38	0.12	0.26	0.23	0.12	-	-	-	-	4.6
4	4	5	5	5	3-5	38	0.12	0.18	0.18	0.12	-	-	-	-	4.6
4	4	5	5	5	10	38	0.12	0.15	0.15	0.12	-	-	-	-	4.6
4	4	5	5	5	15	38	0.12	0.19	0.20	0.12	-	-	-	-	4.6
4	4	5	5	5	20	38	0.12	0.25	0.25	0.12	-	-	-	-	4.6
4	4	5	5	5	25	38	0.14	0.31	0.31	0.12	-	-	-	-	4.6
4	4	5	5	5	30	38	0.17	0.37	0.37	0.12	-	-	-	-	4.6



FILL HEIGHT 2 FT AND GREATER

FILL HEIGHT LESS THAN 2 FT



GENERAL NOTES:

Designs shown conform to ASTM C1537. Refer to ASTM C1537 for information or detail is not shown.

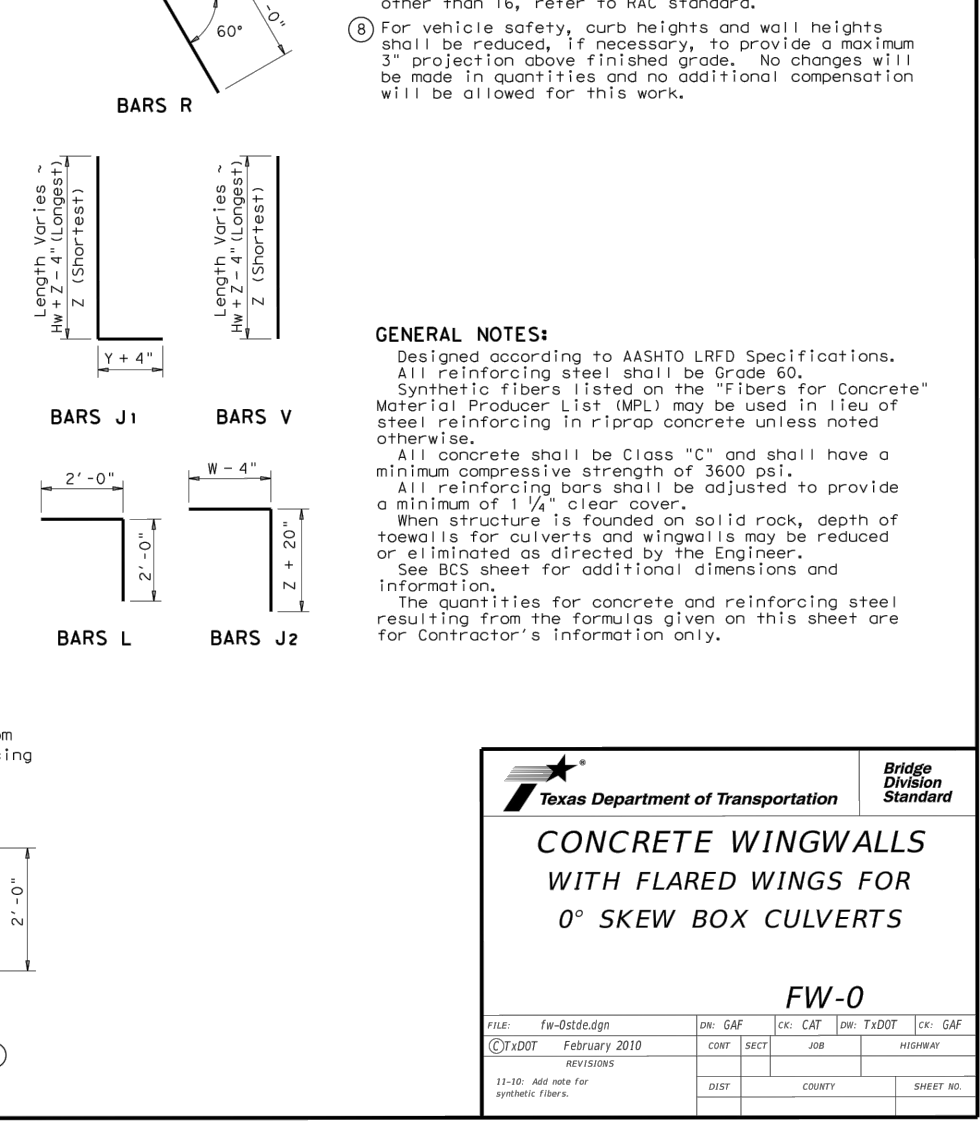
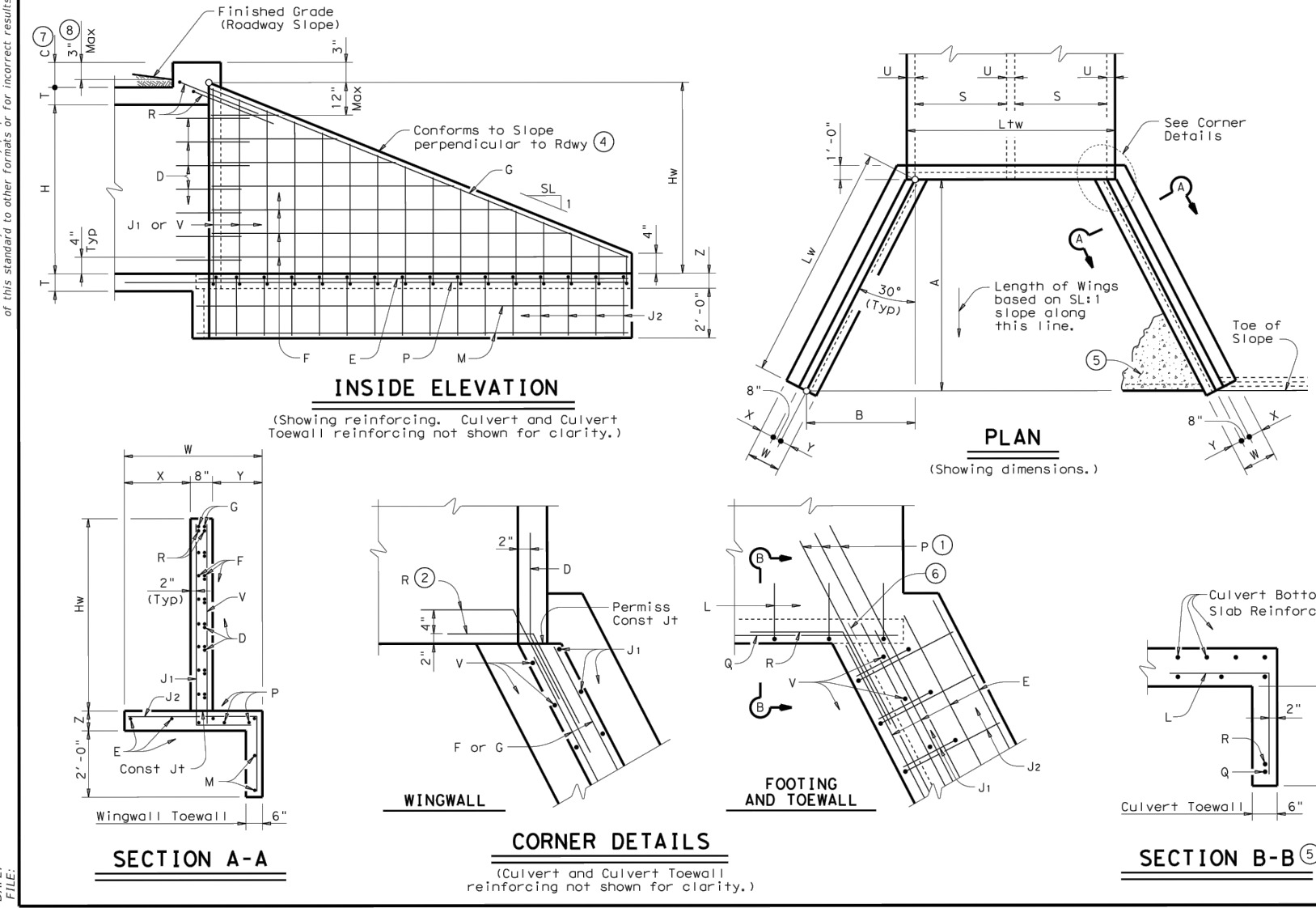
All concrete shall be Class "C" Concrete with a minimum compressive strength of 3600 psi.

See SCP-MD standard sheet for miscellaneous details and notes not shown.

In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

HL93 LOADING
 Texas Department of Transportation
 Bridge Division Standard
SINGLE BOX CULVERTS PRECAST 4'-0" SPAN
 SCP-4

Rev	Date	By	App	Checked	Reviewed
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GENERAL NOTES:

Designed according to AASHTO LRFD Specifications. All reinforcing steel shall be Grade 60. Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

All concrete shall be Class "C" and shall have a minimum compressive strength of 3600 psi.

All reinforcing bars shall be adjusted to provide a minimum of 1" clear cover.

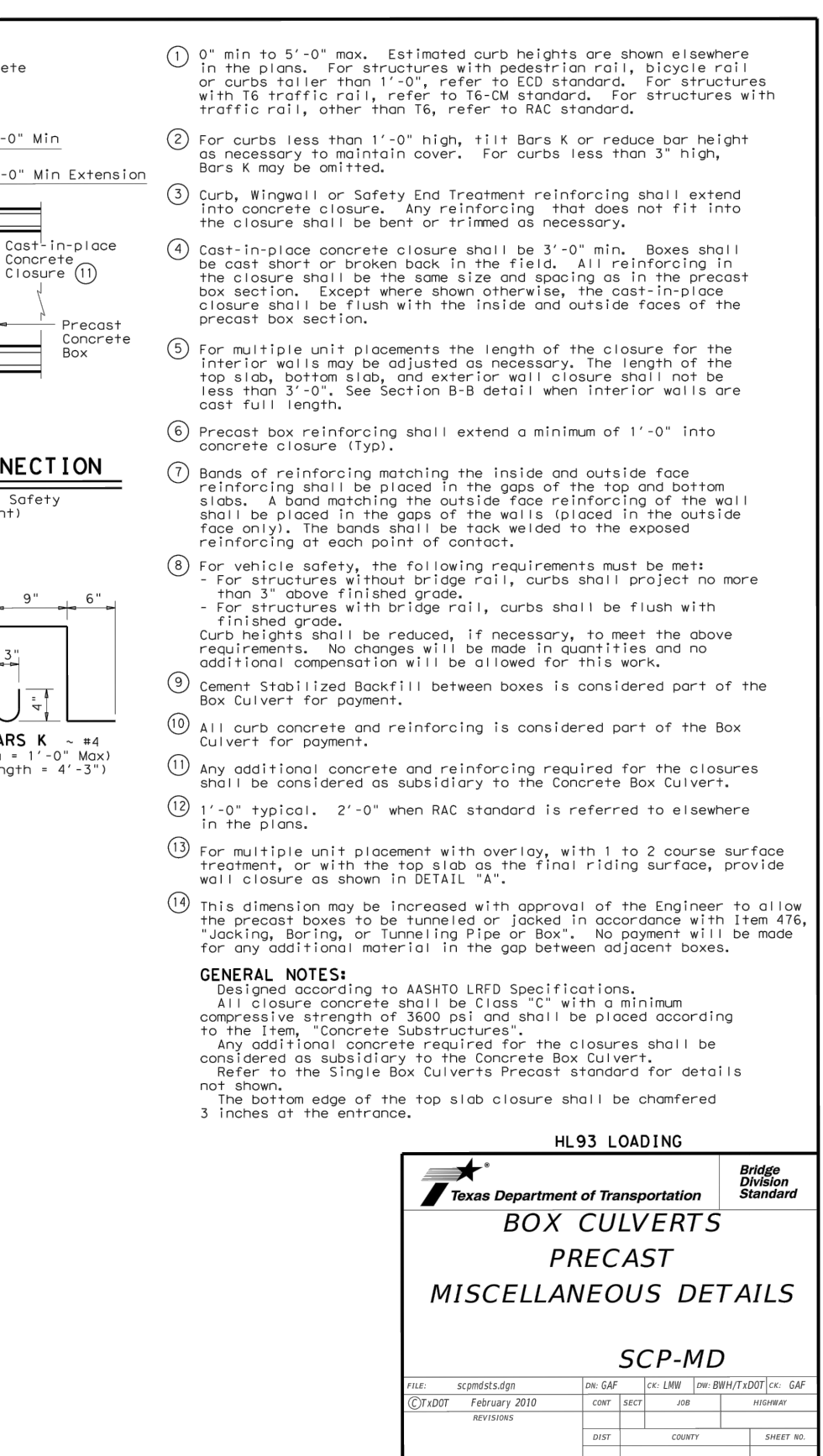
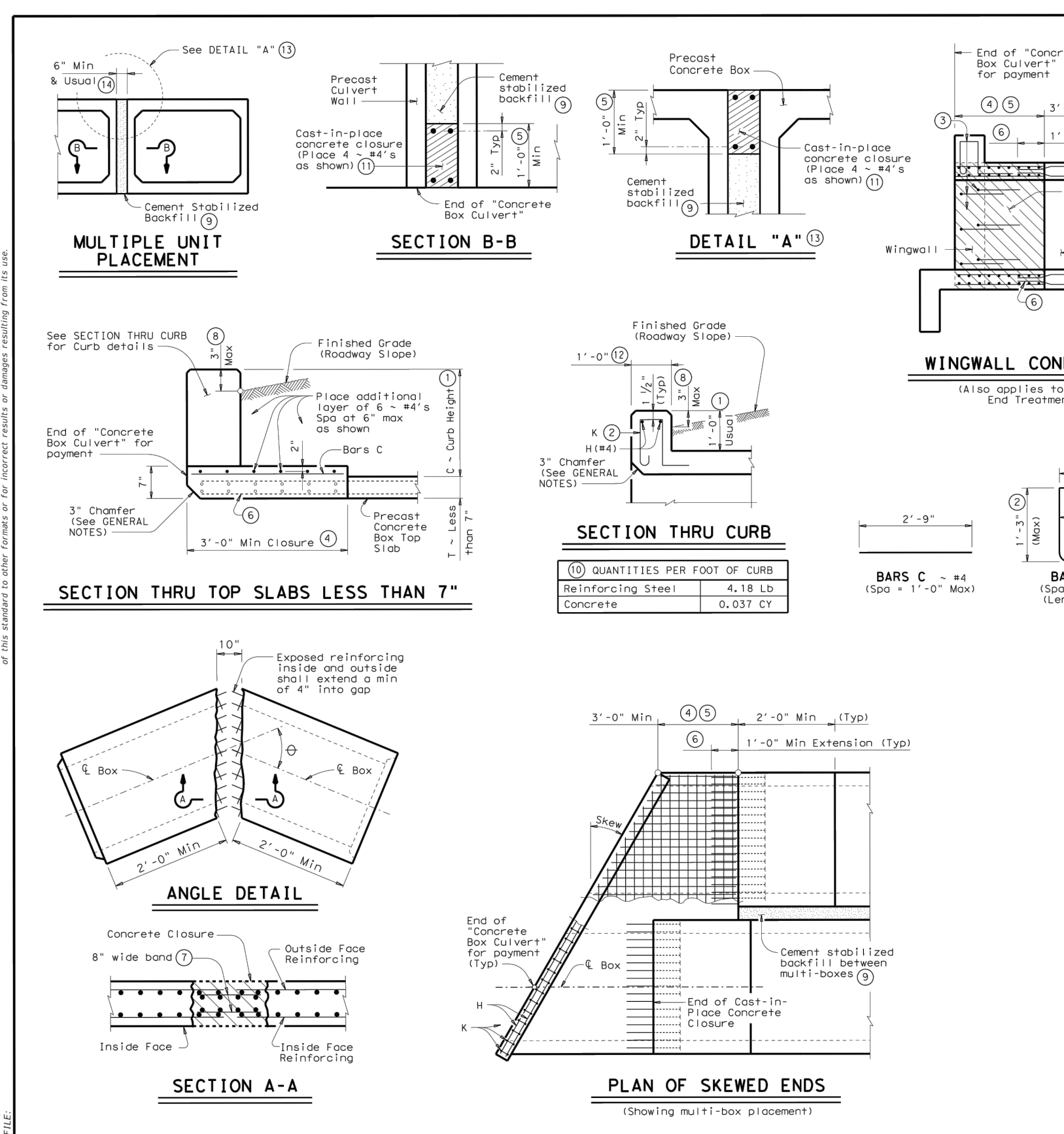
When structure is founded on soft soil, depth of toe wall for culverts and wing walls may be reduced or eliminated as directed by the Engineer.

See BCJ sheet for additional dimensions and information.

The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

Texas Department of Transportation
 Bridge Division Standard
CONCRETE WINGWALLS WITH FLARED WINGS FOR 0° SKEW BOX CULVERTS
 FW-0

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GENERAL NOTES:

0' min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with traffic rail, refer to T&E standard. For structures with traffic rail, other than T&E, refer to RAC standard.

For curbs less than 1'-0" high, 11# Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.

Curb, Wingwall or Safety End Treatment reinforcing shall extend into concrete closure. Any reinforcing that does not fit into the closure shall be bent or trimmed as necessary.

Cast-in-place concrete closure shall be 3'-0" min. Boxes shall be cast short or broken back in the field. All reinforcing in the closure shall be the same size and spacing as in the precast box section. Except where shown otherwise, the cast-in-place concrete closure shall be flush with the inside and outside faces of the precast box section.

For multiple unit placements the length of the closure for the interior walls may be adjusted as necessary, the length of the top slab, bottom slab, and exterior wall closure shall not be less than 3'-0". See Section B-B detail when interior walls are cast full length.

Precast box reinforcing shall extend a minimum of 1'-0" into concrete closure (Typ).

Bands of reinforcing matching the inside and outside face reinforcing shall be placed in the gaps of the top and bottom slabs. A band matching the outside face reinforcing of the wall shall be placed in the gaps of the walls (placed in the outside face only). The bands shall be lap welded to the exposed reinforcing of each point of contact.

For vehicle safety, the following requirements must be met:
 - For structures without bridge rail, curbs shall project no more than 3" above finished grade.
 - For structures with bridge rail, curbs shall be flush with finished grade.
 Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.

Cement Stabilized Backfill between boxes is considered part of the Box Culvert for payment.

All curb concrete and reinforcing is considered part of the Box Culvert for payment.

Any additional concrete and reinforcing required for the closures shall be considered as subsidiary to the Concrete Box Culvert.

1'-0" typical, 2'-0" when RAC standard is referred to elsewhere in the plans.

For multiple unit placement with overlap, with 1 to 2 course surface treatment, or with the top slab as the final riding surface, provide wall closure as shown in DETAIL "A".

This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 416, "Jacking, Boring, or Tunneling Pipe Box Culvert Payment" will be made for any additional material in the gap between adjacent boxes.

QUANTITIES PER FOOT OF CURB

Reinforcing Steel	4.18 LB
Concrete	0.037 CY

HL93 LOADING
 Texas Department of Transportation
 Bridge Division Standard
BOX CULVERTS PRECAST MISCELLANEOUS DETAILS
 SCP-MD

Rev	Date	By	App	Checked	Reviewed
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ENGINEER'S SEAL:

03/02/22

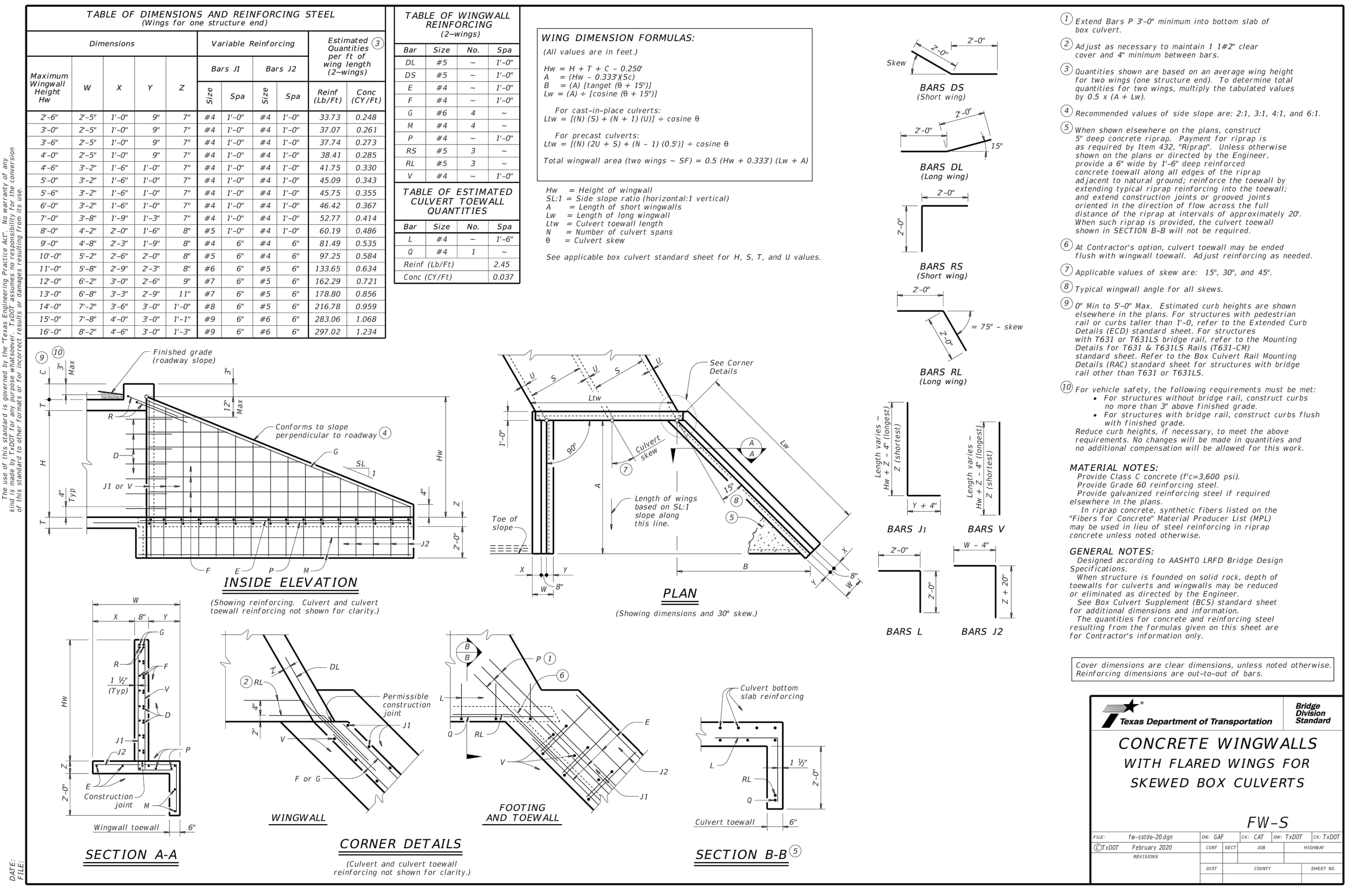
FACILITY:
 DRIPPING SPRINGS RANCH PARK

PROJECT:
 RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

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DRAINAGE DETAILS (1 OF 3)
 SHEET 18 OF 20



NO.	REVISION	DATE
1	ADDENDUM #1	03/02/22

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ENGINEER'S SEAL:

 CHAD GILPIN
 91800
 LICENSED PROFESSIONAL ENGINEER
 03/02/22

FACILITY:
 DRIPPING SPRINGS RANCH PARK

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 RANCH HOUSE ROAD PHASE 1 & DSRP RE-STRIPING PROJECT

DRIPPING SPRINGS
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Open spaces. friendly faces.

DESIGN: BL CHECKED, CG/RB
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DRAINAGE DETAILS
(2 OF 3)
SHEET
19 OF 20

1 DELETED DETAIL

