

HBGCC SOUTH PARKING LOT HENRY B. GONZALEZ CONVENTION CENTER EXPANSION PROJECT

CITY OF SAN ANTONIO

GENERAL CONSTRUCTION NOTES

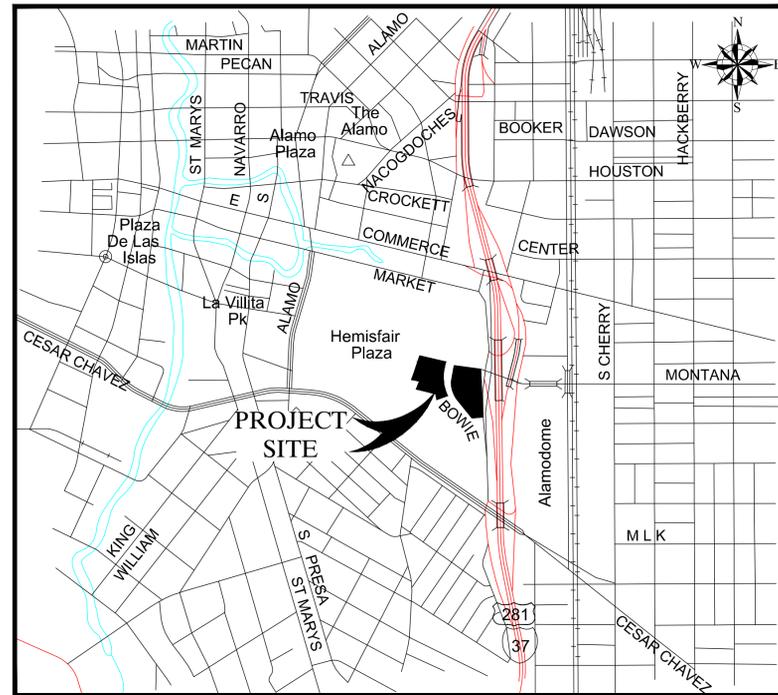
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT, EXCEPTING FROM LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.
- ANY DISCREPANCY OR CONFLICT WITHIN THE DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. DISCREPANCIES OR CONFLICTS NOT BROUGHT TO THE ENGINEER'S ATTENTION AND CLARIFIED DURING BIDDING OF THE PROJECT WILL BE DEEMED TO HAVE BEEN BID OR PROPOSED IN THE MORE COSTLY MANNER, AND THE BETTER QUALITY OR GREATER QUANTITY OF THE WORK SHALL BE PROVIDED BY THE CONTRACTOR IN ACCORDANCE WITH ENGINEER'S INTERPRETATION. ALL ITEMS, WORK, AND IMPROVEMENTS SHOWN OR INDICATED IN THE CONSTRUCTION DOCUMENTS SHALL BE COMPLETED FOR THE PRICES BID, WHETHER OR NOT A SEPARATE PAY ITEM IS INCLUDED IN THE CONTRACT.
- CONTRACTOR SHALL NOTIFY THE ENGINEER AND ALL RESPECTIVE GOVERNMENTAL OR UTILITY AGENCIES AFFECTED BY CONSTRUCTION 72 HOURS PRIOR TO STARTING CONSTRUCTION.
- ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE CITY OF SAN ANTONIO ORDINANCE OF TCI CONSTRUCTION. DESIGN STANDARDS REQUIRED:
 - PROJECT CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS
 - CITY OF SAN ANTONIO, STANDARD CONSTRUCTION SPECIFICATIONS
 - SAN ANTONIO WATER SYSTEMS CONSTRUCTION & MATERIALS SPECIFICATIONS
- ALL PAVEMENTS, DRIVEWAYS, SIDEWALKS, CURBING, GUTTERS, FENCES, POLES, MAILBOXES, SIGNS, TREES, SHRUBBERY, LAWNS, SOIL OR OTHER PROPERTY AND SURFACE STRUCTURES ON OR ADJACENT TO THE SITE OF THE WORK THAT ARE DAMAGED, DISTURBED, REMOVED OR DESTROYED BY THE CONTRACTOR DURING THE WORK SHALL BE REPAIRED, REPLACED OR RETURNED TO A CONDITION EQUAL TO THAT BEFORE THE WORK BEGAN. CONTRACTOR TO SUPPORT AND KEEP INTACT STORM DRAINS AND INLET STRUCTURES. ANY DAMAGES INCURRED WILL BE AT CONTRACTOR'S EXPENSE.
- CONSTRUCTION STAKING TO BE PROVIDED BY CONTRACTOR. MINIMAL CONTROL AND BENCHMARK STAKING WILL BE PROVIDED BY ENGINEER PER CONTRACT DOCUMENTS. CONTRACTOR SHALL PRESERVE ALL CONTROL AND BENCHMARK STAKES, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN "RED LINE" DRAWINGS THROUGH THE COURSE OF CONSTRUCTION AND SHALL SUBMIT SAME TO THE ENGINEER FOR APPROVAL PRIOR TO FINAL ACCEPTANCE OF THE WORK BY OWNER.
- MATERIALS LAYDOWN/STORAGE TO BE DONE ON-SITE, AND PROPERLY SECURED BY CONTRACTOR AS PER SPECIFICATIONS.
- THE LOCATION AND DEPTHS OF EXISTING UTILITIES, INCLUDING SERVICE LATERALS, SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO CONSTRUCTION AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 48 HOURS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT, AND TO PROTECT THE SAME DURING CONSTRUCTION.
 - SAWS UTILITY RELOCATES 233-2010
 - SAWS PRODUCTION CONTROL CENTER 233-2016
 - TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005
 - COSA DRAINAGE 207-8052
 - INFORMATION TECHNOLOGY SERVICES 207-8301

GENERAL TRAFFIC NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND IMPLEMENTING A TRAFFIC CONTROL PLAN. THE PLAN MUST CONFORM TO TMUTCD REQUIREMENTS AND BE SEALED BY A REGISTERED TEXAS PROFESSIONAL ENGINEER. SUBMIT 3 COPIES OF THE TRAFFIC CONTROL PLAN TO THE ENGINEER AND TCI FOR APPROVAL AT LEAST 48 HOURS PRIOR TO INSTALLATION OF TRAFFIC CONTROL DEVICES.
- THE CONTRACTOR SHALL PROVIDE ACCESS FOR RESIDENCES AND BUSINESSES. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.
- THE CONTRACTOR WILL BE REQUIRED TO FURNISH BARRICADES, WARNING SIGNS, LIGHTS, FLARES, FLAGS, FLAGMEN, ETC. WHERE NECESSARY AND AS DIRECTED BY THE ENGINEER, PARTICULARLY IN THOSE AREAS OF IMMEDIATE WORK.
- BATTERY FLASHERS SHALL BE USED AND NUMBER SHALL BE EQUAL OR GREATER THAN INDICATED ON BARRICADING STANDARDS. WHEN A CLASS I BARRICADE PANEL OR CLASS II BARRICADE IS USED, EACH SHOULD BE EQUIPPED WITH A MINIMUM OF TWO (2) LIGHTS. ALL WARNING SIGNS NOT MOUNTED ON BARRICADES SHALL HAVE ONE (1) LIGHT. BATTERY FLASHERS SHALL CONFORM TO PART V, SECTION D, LIGHTING DEVICES, TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS.

TESTING NOTES:

- QUALITY CONTROL TESTING TO BE PROVIDED BY OWNER OR OWNER REPRESENTATIVE FOR SOIL COMPACTION, BASE & ASPHALT DENSITY, & TRENCH COMPACTION PER THESE PLANS & CITY OF SAN ANTONIO STANDARD CONSTRUCTION SPECIFICATIONS & GEOTECHNICAL REPORT.
- CONTRACTOR TO PROVIDED MATERIAL SUBMITTALS TO ENGINEER FOR APPROVAL.



LOCATION MAP

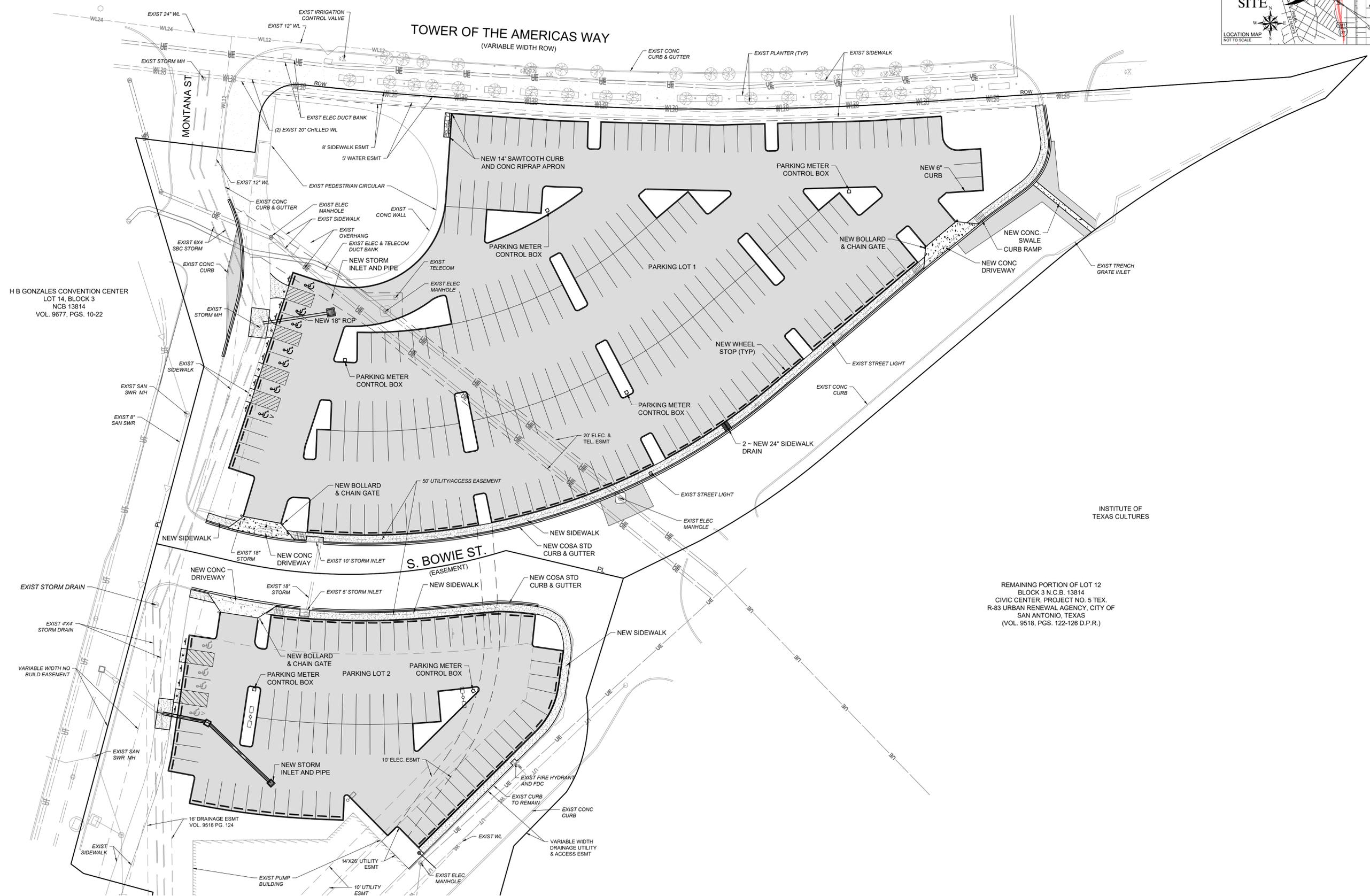
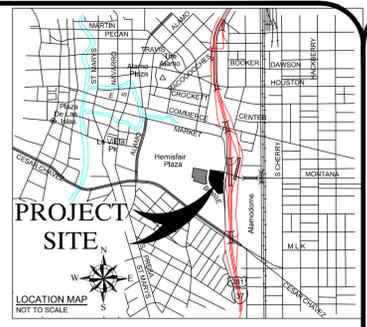
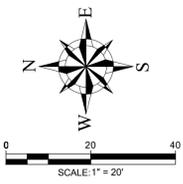
NOT TO SCALE

Sheet	Title
C.0	COVER
C0.0	OVERALL PROJECT
C1.0	DEMOLITION AND SWPPP
C1.1	STORM WATER POLLUTION PREVENTION
C1.2-C1.3	STORM WATER POLLUTION PREVENTION DETAILS
C2.0-C2.1	CIVIL SITE PLAN
C2.2-C2.3	DIMENSIONAL CONTROL
C3.0-C3.1	GRADING PLAN
C4.0	DRAINAGE AREA MAP
C4.1-C4.2	STORM DRAIN
C5.0	CIVIL DETAILS
C5.1-C5.2	COSA STANDARD DETAILS
C5.3	SPECIFICATIONS
C6.0	UTILITY PLAN - WATER - LOT 2
E0.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.1	ELECTRICAL FLOOR PLAN LOT1
E1.2	ELECTRICAL FLOOR PLAN LOT2
E2.1	ELECTRICAL ONE-LINE DIAGRAM
E3.1	ELECTRICAL SCHEDULES
E4.1	ELECTRICAL DETAILS
E5.1	ELECTRICAL SPECIFICATIONS
E5.2	ELECTRICAL SPECIFICATIONS
LP1.1	LANDSCAPE PLANTING PLAN - LOT 1
LP1.2	LANDSCAPE PLANTING PLAN - LOT 2
LP2.1	PLANTING DETAILS & NOTES
LI1.0	IRRIGATION NOTES
LI1.1	LANDSCAPE IRRIGATION PLAN - LOT 1
LI1.2	LANDSCAPE IRRIGATION PLAN - LOT 2
LI2.1-LI2.1	IRRIGATION DETAILS

F **FORD ENGINEERING INC.**
ENGINEERING * SURVEYING * PLANNING
10927 WYE DRIVE, SUITE 104, SAN ANTONIO, TEXAS 78217, (210) 590-4777
PROJECT NO.: 1801.18 www.fordengineering.com DATE: JULY 27, 2016



- LEGEND
- NEW CONC DRIVEWAY
 - NEW CONC SIDEWALK
 - NEW PAVEMENT
 - NEW STRIPING



H B GONZALES CONVENTION CENTER
LOT 14, BLOCK 3
NCB 13814
VOL. 9677, PGS. 10-22

REMAINING PORTION OF LOT 12
BLOCK 3 N.C.B. 13814
CIVIC CENTER, PROJECT NO. 5 TEX.
R-83 URBAN RENEWAL AGENCY, CITY OF
SAN ANTONIO, TEXAS
(VOL. 9518, PGS. 122-126 D.P.R.)

INSTITUTE OF
TEXAS CULTURES

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WWW.FORDEngineering.COM • TBL#LS No. 10019400

MARK B. HILL
94904
08-05-2016

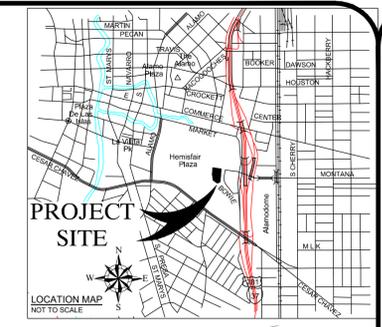
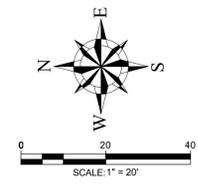
REVISIONS:

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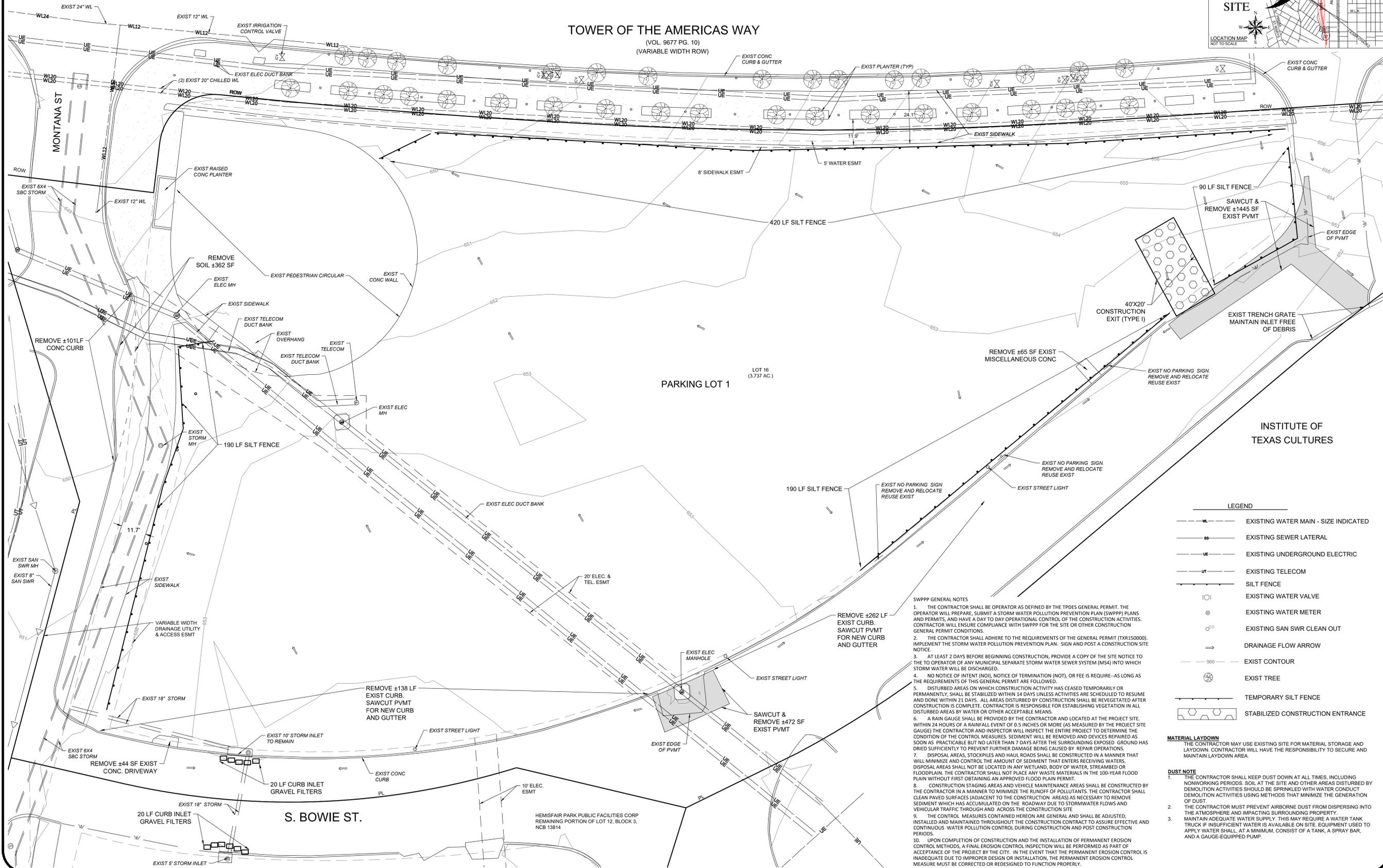
HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALES CONVENTION CENTER
EXPANSION PROJECT
OVERALL PROJECT

PROJECT NO. 1801.18
JULY 27, 2016
C0.0

DRAWINGS ARE THE SOLE PROPERTY OF THE ADVISEE ENGINEER. THE PROJECT FOR WHICH THEY ARE INTENDED IS EXCLUDED HEREIN. THEY ARE NOT TO BE USED BY ANYONE ON OTHER PROJECTS OR EXTENDED TO THIS PROJECT NOT COVERED IN THE CONTRACT, WITHOUT WRITTEN AGREEMENT WITH AND APPROPRIATE COMPENSATION TO FORD ENGINEERING, INC.



TOWER OF THE AMERICAS WAY
(VOL. 9677 PG. 10)
(VARIABLE WIDTH ROW)



PARKING LOT 1
(LOT 16)
(3.737 AC.)

INSTITUTE OF TEXAS CULTURES

S. BOWIE ST.

HEMISFAIR PARK PUBLIC FACILITIES CORP
REMAINING PORTION OF LOT 12, BLOCK 3,
NCB 13814

LEGEND

WL	EXISTING WATER MAIN - SIZE INDICATED
SS	EXISTING SEWER LATERAL
UE	EXISTING UNDERGROUND ELECTRIC
UT	EXISTING TELECOM
---	SILT FENCE
○	EXISTING WATER VALVE
⊙	EXISTING WATER METER
⊙	EXISTING SAN SWR CLEAN OUT
→	DRAINAGE FLOW ARROW
---	EXIST CONTOUR
⊙	EXIST TREE
---	TEMPORARY SILT FENCE
---	STABILIZED CONSTRUCTION ENTRANCE

- SWPPP GENERAL NOTES**
1. THE CONTRACTOR SHALL BE OPERATOR AS DEFINED BY THE TPDES GENERAL PERMIT. THE OPERATOR WILL PREPARE, SUBMIT A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) PLANS AND PERMITS, AND HAVE A DAY TO DAY OPERATIONAL CONTROL OF THE CONSTRUCTION ACTIVITIES. CONTRACTOR WILL ENSURE COMPLIANCE WITH SWPPP FOR THE SITE OR OTHER CONSTRUCTION GENERAL PERMIT CONDITIONS.
 2. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE GENERAL PERMIT (TXR150000). IMPLEMENT THE STORM WATER POLLUTION PREVENTION PLAN. SIGN AND POST A CONSTRUCTION SITE NOTICE.
 3. AT LEAST 2 DAYS BEFORE BEGINNING CONSTRUCTION, PROVIDE A COPY OF THE SITE NOTICE TO THE OPERATOR OF ANY MUNICIPAL SEPARATE STORM WATER SEWER SYSTEM (MS4) INTO WHICH STORM WATER WILL BE DISCHARGED.
 4. NO NOTICE OF INTENT (NOI), NOTICE OF TERMINATION (NOT), OR FEE IS REQUIRE--AS LONG AS THE REQUIREMENTS OF THIS GENERAL PERMIT ARE FOLLOWED.
 5. DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY, SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS. ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE REVEGETATED AFTER CONSTRUCTION IS COMPLETE. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING VEGETATION IN ALL DISTURBED AREAS WITH WATER OR OTHER ACCEPTABLE MEANS.
 6. A RAIN GAUGE SHALL BE PROVIDED BY THE CONTRACTOR AND LOCATED AT THE PROJECT SITE. WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR MORE (AS MEASURED BY THE PROJECT SITE GAUGE) THE CONTRACTOR AND INSPECTOR WILL INSPECT THE ENTIRE PROJECT TO DETERMINE THE CONDITION OF THE CONTROL MEASURES. SEDIMENT WILL BE REMOVED AND DEVICES REPAIRED AS SOON AS PRACTICABLE BUT NO LATER THAN 7 DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE BEING CAUSED BY REPAIR OPERATIONS.
 7. DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN PERMIT.
 8. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. THE CONTRACTOR SHALL CLEAN PAVED SURFACES (ADJACENT TO THE CONSTRUCTION AREAS) AS NECESSARY TO REMOVE SEDIMENT WHICH HAS ACCUMULATED ON THE ROADWAY DUE TO STORMWATER FLOWS AND VEHICULAR TRAFFIC THROUGH AND ACROSS THE CONSTRUCTION SITE.
 9. THE CONTROL MEASURES CONTAINED HEREON ARE GENERAL AND SHALL BE ADJUSTED, INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION CONTRACT TO ASSURE EFFECTIVE AND CONTINUOUS WATER POLLUTION CONTROL DURING CONSTRUCTION AND POST CONSTRUCTION PERIODS.
 10. UPON COMPLETION OF CONSTRUCTION AND THE INSTALLATION OF PERMANENT EROSION CONTROL METHODS, A FINAL EROSION CONTROL INSPECTION WILL BE PERFORMED AS PART OF ACCEPTANCE OF THE PROJECT BY THE CITY. IN THE EVENT THAT THE PERMANENT EROSION CONTROL IS INADEQUATE DUE TO IMPROPER DESIGN OR INSTALLATION, THE PERMANENT EROSION CONTROL MEASURE MUST BE CORRECTED OR REDESIGNED TO FUNCTION PROPERLY.

MATERIAL LAYDOWN
THE CONTRACTOR MAY USE EXISTING SITE FOR MATERIAL STORAGE AND LAYDOWN. CONTRACTOR WILL HAVE THE RESPONSIBILITY TO SECURE AND MAINTAIN LAYDOWN AREA.

DUST NOTE

1. THE CONTRACTOR SHALL KEEP DUST DOWN AT ALL TIMES, INCLUDING NONWORKING PERIODS. SOIL AT THE SITE AND OTHER AREAS DISTURBED BY DEMOLITION ACTIVITIES SHOULD BE SPRINKLED WITH WATER CONDUCT DEMOLITION ACTIVITIES USING METHODS THAT MINIMIZE THE GENERATION OF DUST.
2. THE CONTRACTOR MUST PREVENT AIRBORNE DUST FROM DISPERSING INTO THE ATMOSPHERE AND IMPACTING SURROUNDING PROPERTY.
3. MAINTAIN ADEQUATE WATER SUPPLY. THIS MAY REQUIRE A WATER TANK TRUCK IF INSUFFICIENT WATER IS AVAILABLE ON SITE. EQUIPMENT USED TO APPLY WATER SHALL, AT A MINIMUM, CONSIST OF A TANK, A SPRAY BAR, AND A GAUGE-EQUIPPED PUMP.

FORD ENGINEERING INC.
ENGINEERING SURVEYING PLANNING
18827 WYE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 • P: (210) 590-4777 • F: (210) 590-4940
TXPE No. 1162 • WWW.FORDEENGINEERING.COM • TBPALS No. 10019400

MARK B. HILL
94904
08-05-2016

REVISIONS:

NO.	DATE	DESCRIPTION

HGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
DEMOLITION & SWPPP - LOT 1

PROJECT NO. 1801.18
JULY 27, 2016
C1.0

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SITE DESCRIPTION

PROJECT NAME AND LOCATION: HBGCC SOUTH PARKING LOT
 LOCATED AT HEMISFAIR PARK, NEAR THE INTERSECTION OF MONTANA STREET
 AND TOWER OF AMERICAS WAY

CONTACT AND PHONE NO.: JEFF D. KNIPPEL, CAPITAL PROGRAMS MANAGER, HBGCC EXPANSION PROJECT
 TRANSPORTATION AND CAPITAL IMPROVEMENTS DEPARTMENT, COSA
 BLD. 277, 600 HEMISFAIR PLAZA WAY, ROOM 211
 SAN ANTONIO, TEXAS 78205 PHONE: 210-207-4334

PROJECT DESCRIPTION: CITY OF SAN ANTONIO IS CONSTRUCTING A NEW 8,700 SQ-FT PARKING LOT, IN
 THE AREA THAT WAS FORMERLY IH-37 RIGHT OF WAY, WHICH WAS DEEDED TO
 THE CITY BY TXDOT. PROJECT ALSO INCLUDES STORM DRAIN ADDITION, LIGHTING,
 AND LANDSCAPING.

MAJOR SOIL DISTURBING ACTIVITIES: MASS GRADING OF PARKING LOT
 EXCAVATION FOR STORM DRAIN
 EXCAVATION FOR LIGHT POLES.

TOTAL PROJECT AREA (ACRES): 3.74 acres

TOTAL AREA TO BE DISTURBED: 3.10 acres

WEIGHTED RUNOFF COEFFICIENT (AFTER CONSTRUCTION): 0.95

EXISTING CONDITION OF SOIL, VEGETATIVE COVER AND % OF VEGETATIVE COVER:

LOT IS CURRENTLY BEING REVEGETATED HAVING RECENTLY BEEN DEMOLISHED AND USED FOR MATERIAL STAGING AREA FOR THE HBGCC CONSTRUCTION. CURRENTLY LESS THAN 50% VEGETATIVE COVER.

DESCRIPTION OF WATER DISCHARGED NOT ASSOCIATED WITH CONSTRUCTION:
 STORM WATER RUNOFF ONLY

NAME OF RECEIVING WATERS:
 SAN ANTONIO RIVER

IDENTIFY STORMWATER DISCHARGE POINTS:
 DISCHARGE TO IH-37 NEAR PEDESTRIAN CIRCULAR, STORM INLET AT MONTANA AND BOWIE, TRENCH GRATE AT TEXAS INSTITUTE DRIVEWAY, AND NEW GRATE INLET WITH CONSTRUCTION.

A DESCRIPTION AND TIME FRAME FOR INSTALLATION OF STABILIZATION PRACTICES IN CONJUNCTION WITH CONSTRUCTION:
 AFTER CONSTRUCTION, DISTURBED AREAS WILL BE RE-SEEDED.

EROSION AND SEDIMENTATION CONTROLS

SOIL STABILIZATION PRACTICES:

- HYDROMULCHING
- TEMPORARY SEEDING
- PERMANENT PLANTING, SODDING OR SEEDING
- MULCHING
- SOIL RETENTION BLANKET
- BUFFER ZONES
- PRESERVATION OF NATURAL RESOURCES

OTHER:

DISTURBED AREAS ON WHICH CONSTRUCTION ACTIVITY HAS CEASED TEMPORARILY OR PERMANENTLY SHALL BE STABILIZED WITHIN 14 DAYS UNLESS ACTIVITIES ARE SCHEDULED TO RESUME AND DONE WITHIN 21 DAYS.

STRUCTURAL PRACTICES:

- SILT FENCES
- HAY BALES
- GRAVEL FILTRATION BAGS
- ROCK BERMS
- DIVERSION, INTERCEPTOR OR PERIMETER DIKES
- DIVERSION, INTERCEPTOR OR PERIMETER SWALES
- DIVERSION, DIKE AND SWALE COMBINATIONS
- PAVED FLUMES
- ROCK BEDDING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- TIMBER MATTING AT CONSTRUCTION EXIT (STABILIZED ENTRANCE)
- CHANNEL LINERS
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET SEDIMENT STRUCTURES
- CURBS AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL STRUCTURES
- GEOTEXTILES

OTHER:

NARRATIVE – SEQUENCE OF CONSTRUCTION (STORMWATER MANAGEMENT) ACTIVITIES:

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

- ESTABLISH STORM WATER CONTROLS.
- GRADING OF SITE
- ELECTRIC AND STORM INSTALLATION
- CURBING, PAVING
- LANDSCAPING

A DESCRIPTION OF MAINTENANCE PROCEDURES FOR CONTROL MEASURES USED:

REMOVE DEBRIS AND SILT COLLECTED AT SILT FENCES AND STORM INLET PROTECTION. REPLACE AS NEEDED

STORMWATER MANAGEMENT:

NO DETENTION WILL BE PROVIDED. EXISTING INLET HAVE CAPACITY FOR INCREASE.

A DESCRIPTION OF PERMANENT STORM WATER MANAGEMENT CONTROLS:

NEW STORM INLET PROVIDED IN PARKING LOT TO DIRECT THE RUNOFF TO THE EXISTING 6' X 4' STORM DRAIN

OTHER EROSION AND SEDIMENTATION CONTROLS

MAINTENANCE:

ALL EROSION AND SEDIMENT CONTROLS WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE DONE AT THE EARLIEST DATE POSSIBLE, BUT NO LATER THAN 7 CALENDAR DAYS AFTER THE SURROUNDING EXPOSED GROUND HAS DRIED SUFFICIENTLY TO PREVENT FURTHER DAMAGE FROM HEAVY EQUIPMENT. THE AREAS ADJACENT TO CREEKS AND DRAINAGEWAYS SHALL HAVE PRIORITY, FOLLOWED BY DEVICES PROTECTING STORM SEWER INLETS.

INSPECTION:

AN INSPECTION WILL BE PERFORMED BY THE CONTRACTOR EVERY 14 DAYS AS WELL AS AFTER EVERY 1/2" OR MORE OF RAIN (RECORDED ON A NON-FREEZING RAIN GAUGE TO BE LOCATED AT THE PROJECT SITE). AN INSPECTION AND MAINTENANCE REPORT WILL BE MADE PER INSPECTION. BASED ON THE INSPECTION RESULTS, THE CONTROLS SHALL BE CORRECTED BEFORE THE NEXT SCHEDULED INSPECTION.

WASTE MATERIALS:

ALL WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL STATE AND LOCAL CITY SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER WILL BE EMPTIED AS NECESSARY OR AS REQUIRED BY LOCAL REGULATION AND THE TRASH WILL BE HAULED TO A LOCAL DUMP. NO CONSTRUCTION MATERIALS WILL BE BURIED ON SITE.

HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

AT A MINIMUM, ANY PRODUCTS IN THE FOLLOWING CATEGORIES ARE CONSIDERED TO BE HAZARDOUS: PAINTS, ACIDS FOR CLEANING MASONRY SURFACES, GASOLINE, MOTOR OIL, CLEANING SOLVENTS, ASPHALT PRODUCTS, CHEMICAL ADDITIVES FOR SOIL STABILIZATION OR CONCRETE CURING COMPOUNDS AND ADDITIVES. IN THE EVENT OF A SPILL WHICH MAY BE HAZARDOUS AND MEETS REPORTING REQUIREMENTS, THE NATIONAL RESPONSE CENTER SHOULD BE CONTACTED AT 800-424-8802, AND ANY REQUIRED CHANGES MADE TO THE SWPPP. IN THE EVENT OF A LIFE THREATENING SPILL THE SAN ANTONIO FIRE DEPARTMENT SHOULD BE NOTIFIED AS WELL AS THE APPROPRIATE CITY INSPECTORS.

SANITARY WASTE

N/A

OFFSITE EXCAVATION SOURCE LOCATION

OFFSITE FILL SOURCE LOCATION

OFFSITE VEHICLE TRACKING

- HAUL ROADS DAMPENED FOR DUST CONTROL.
- LOADED HAUL TRUCKS TO BE COVERED WITH TARPULIN
- EXCESS DIRT ON ROAD TO BE REMOVED DAILY
- STABILIZED CONSTRUCTION ENTRANCE.

OTHER:

CERTIFICATION THAT SITE DISTURBANCE AND / OR DISCHARGES WILL NOT EFFECT LISTED ENDANGERED SPECIES AND THEIR HABITAT.
 WHAT METHOD IS USED TO SATISFY THE ENDANGERED SPECIES REQUIREMENTS?

REMARKS:

DISPOSAL AREAS, STOCKPILES AND HAUL ROADS SHALL BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE AND CONTROL THE AMOUNT OF SEDIMENT THAT ENTERS RECEIVING WATERS. DISPOSAL AREAS SHALL NOT BE LOCATED IN ANY WETLAND, BODY OF WATER, STREAMBED OR FLOODPLAIN. CONSTRUCTION STAGING AREAS AND VEHICLE MAINTENANCE AREAS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN A MANNER TO MINIMIZE THE RUNOFF OF POLLUTANTS. ALL WATERWAYS SHALL BE CLEARED AS SOON AS POSSIBLE OF TEMPORARY EMBANKMENT, TEMPORARY BRIDGES, MATTING, FALSEWORK, PILING DEBRIS OR OTHER OBSTRUCTION PLACED DURING CONSTRUCTION OPERATIONS THAT ARE NOT PART OF THE FINISHED WORK.

JANUARY 2005
 CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

STORM WATER POLLUTION PREVENTION PLAN (SWP3) NARRATIVE

% SUBMITTAL	PROJECT NO.:	DATE:
DRWN. BY: V. VASQUEZ	DSGN. BY:	CHKD. BY:
		SHEET NO.: OF

FORD ENGINEERING INC.
 ENGINEERING SURVEYING PLANNING
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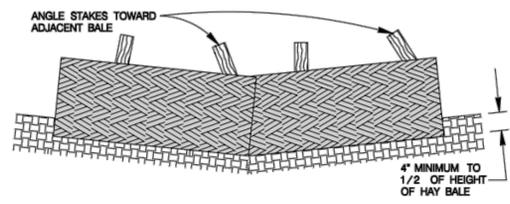


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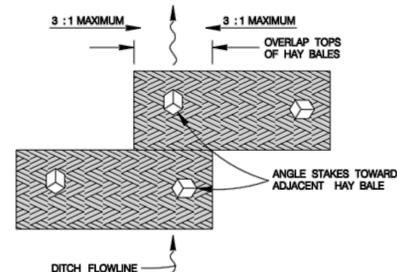
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HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 STORM WATER POLLUTION PREVENTION

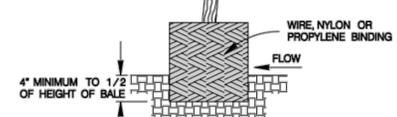
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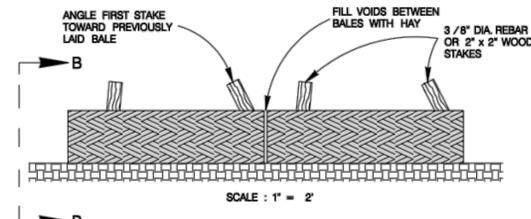
PROFILE VIEW
SCALE: 1" = 2'



PLAN VIEW
SCALE: 1" = 2'



SECTION B-B
SCALE: 1" = 2'



SCALE: 1" = 2'

BALED HAY USAGE GUIDELINES

A BALED HAY INSTALLATION MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUNOFF. A TWO YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED. THE INSTALLATION SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 5 GPM / FT SQUARED OF CROSS SECTIONAL AREA. BALED HAY MAY BE USED AT THE FOLLOWING LOCATIONS:

1. WHERE THE RUNOFF APPROACHING THE BALED HAY FLOWS OVER DISTURBED SOIL FOR LESS THAN 100'. IF THE SLOPE OF THE DISTURBED SOIL EXCEEDS 10%, THE LENGTH OF SLOPE UPSTREAM OF THE BALED HAY SHOULD BE LESS THAN 50'.
2. WHERE THE INSTALLATION WILL BE REQUIRED FOR LESS THAN 3 MONTHS.
3. WHERE THE CONTRIBUTING DRAINAGE AREA IS LESS THAN 1/2 ACRE.

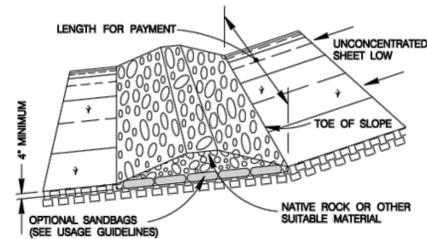
FOR BALED HAY INSTALLATIONS IN SMALL DITCHES, THE FOLLOWING ADDITIONAL CONSIDERATIONS APPLY:

1. THE DITCH SIDESLOPES SHOULD BE GRADED AS FLAT AS POSSIBLE TO MAXIMIZE THE DRAINAGE FLOW RATE THRU THE HAY.
 2. THE DITCH SHOULD BE GRADED LARGE ENOUGH TO CONTAIN THE OVERLAPPING DRAINAGE WHEN SEDIMENT HAS FILLED TO THE TOP OF THE BALED HAY.
- BALES SHOULD BE REPLACED USUALLY EVERY 2 MONTHS OR MORE OFTEN DURING WET WEATHER WHEN LOSS OF STRUCTURAL INTEGRITY IS ACCELERATED.

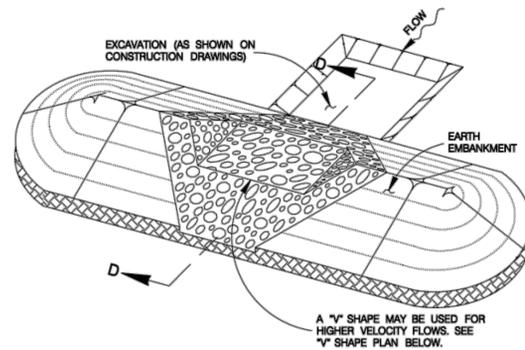
GENERAL NOTES

1. HAY BALES SHALL BE A MINIMUM OF 30" IN LENGTH AND WEIGH A MINIMUM OF 50 LBS.
2. HAY BALES SHALL BE BOUND BY EITHER WIRE OR NYLON OR POLYPROPYLENE STRING. THE BALES SHALL BE COMPOSED ENTIRELY OF VEGETABLE MATTER.
3. HAY BALES SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4" AND, WHERE POSSIBLE, ONE-HALF THE HEIGHT OF THE BALE.
4. HAY BALES SHALL BE PLACED IN A ROW WITH ENDS TIGHTLY ABUTTING THE ADJACENT BALES. THE BALES SHALL BE PLACED WITH BINDINGS PARALLEL TO THE GROUND.
5. HAY BALES SHALL BE SECURELY ANCHORED IN PLACE WITH 3/8" DIA. REBAR OR 2" x 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE SHALL BE ANGLED TOWARDS THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.
6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

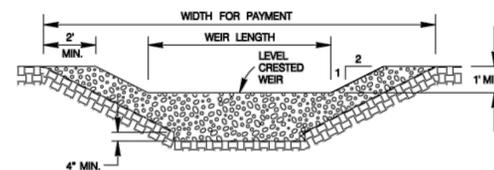
BALED HAY FOR EROSION CONTROL



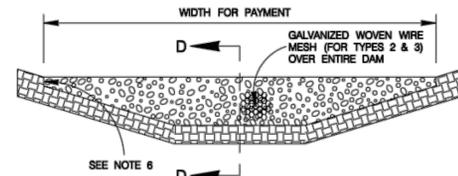
TYPE 1 FILTER DAM AT TOE OF SLOPE
SCALE: 1" = 10'



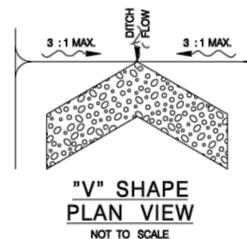
TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP
SCALE: 1" = 10'



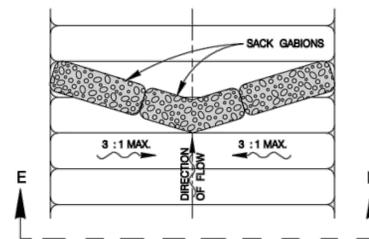
PROFILE OF TYPE 1 & 2 FILTER DAM AT SEDIMENT TRAP
SCALE: 1" = 6'



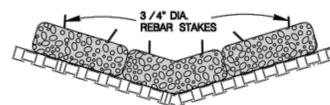
TYPE 1, 2 & 3 FILTER DAM AT CHANNEL SECTIONS
SCALE: 1" = 6'



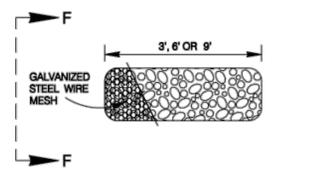
"V" SHAPE PLAN VIEW
NOT TO SCALE



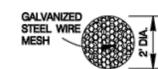
PLAN VIEW
SCALE: 1" = 10'



SECTION E-E
SCALE: 1" = 10'



TYPE 4 SACK GABION DETAIL
SCALE: 1" = 6'



SECTION F-F
SCALE: 1" = 6'

TYPE 4 FILTER DAM AT DITCHES & SMALLER CHANNELS PLAN VIEW

ROCK FILTER DAMS

ROCK FILTER DAM USAGE GUIDELINES

ROCK FILTER DAMS SHOULD BE CONSTRUCTED DOWNSTREAM FROM DISTURBED AREAS TO INTERCEPT SEDIMENT FROM OVERLOAD RUNOFF AND / OR CONCENTRATED FLOW. THE DAMS SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 60 GPM / FT SQUARED OF CROSS SECTIONAL AREA. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE.

TYPE 1 (18" HIGH WITH NO WIRE MESH):

TYPE 1 MAY BE USED AT THE TOE OF SLOPES, AROUND INLETS, IN SMALL DITCHES AND AT DIKE OR SWALE OUTLETS. THIS TYPE OF DAM IS RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA OF 5 ACRES OR LESS. TYPE 1 MAY NOT BE USED IN CONCENTRATED HIGH VELOCITY FLOWS (APPROXIMATELY 8 FT./SEC. OR MORE) IN WHICH AGGREGATE WASH OUT MAY OCCUR. SANDBAGS MAY BE USED AT THE EMBEDDED FOUNDATION (4" DEEP MIN) FOR BETTER FILTERING EFFICIENCY OF LOW FLOWS IF CALLED FOR ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

TYPE 2 (18" HIGH WITH WIRE MESH):

TYPE 2 MAY BE USED IN DITCHES AND AT DIKE OR SWALE OUTLETS.

TYPE 3 (36" HIGH WITH WIRE MESH):

TYPE 3 MAY BE USED IN STREAM FLOW AND SHOULD BE SECURED TO THE STREAM BED.

TYPE 4 (SACK GABIONS):

TYPE 4 MAY BE USED IN DITCHES AND SMALLER CHANNELS TO FORM AN EROSION CONTROL DAM.

GENERAL NOTES

1. IF SHOWN ON THE PLANS OR DIRECTED BY THE ENGINEER, FILTER DAMS SHOULD BE PLACED NEAR THE TOE OF SLOPES WHERE EROSION IS ANTICIPATED, UPSTREAM AND / OR DOWNSTREAM AT DRAINAGE STRUCTURES, AND IN ROADWAY DITCHES AND CHANNELS TO COLLECT SEDIMENT.
2. MATERIALS (AGGREGATE, WIRE MESH, SANDBAGS, ETC.) SHALL BE AS INDICATED BY THE SPECIFICATION FOR ROCK FILTER DAMS FOR EROSION AND SEDIMENTATION CONTROL.
3. THE ROCK FILTER DAM DIMENSIONS SHALL BE AS INDICATED ON THE STORM WATER POLLUTION PREVENTION PLANS.
4. SIDE SLOPES SHOULD BE 2:1 OR FLATTER. DAMS WITHIN THE SAFETY ZONE SHALL HAVE SIDE SLOPES OF 6:1 OR FLATTER.
5. MAINTAIN A MINIMUM OF 1' BETWEEN TOP OF ROCK FILTER DAM WEIR AND TOP OF EMBANKMENT FOR FILTER DAMS AT SEDIMENT TRAPS.
6. FILTER DAMS SHOULD BE EMBEDDED A MINIMUM OF 4" INTO THE EXISTING GROUND.
7. THE SEDIMENT TRAP FOR PONDING OF SEDIMENT LADEN RUNOFF SHALL BE OF THE DIMENSIONS SHOWN ON THE PLANS.
8. ROCK FILTER DAM TYPES 2 & 3 SHALL BE SECURED WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1" DIAMETER HEXAGONAL OPENINGS. THE AGGREGATE SHALL BE PLACED ON THE MESH TO THE HEIGHT AND SLOPES SPECIFIED. THE MESH SHALL BE FOLDED AT THE UPSTREAM SIDE OVER THE AGGREGATE AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS. IN STREAM USE, THE MESH SHOULD BE SECURED OR STAKED TO THE STREAM BED PRIOR TO AGGREGATE PLACEMENT.
9. SACK GABIONS SHOULD BE STAKED DOWN WITH 3/4" DIA. REBAR STAKES.
10. FLOW OUTLET SHOULD BE ONTO A STABILIZED AREA (VEGETATION, ROCK, ETC.).
11. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

JANUARY 2005

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 2

% SUBMITTAL	PROJECT NO.:	DATE:
DRWN BY: V. VASQUEZ	DSGN. BY:	CHKD. BY:
		SHEET NO.: OF

FORD ENGINEERING INC.
ENGINEERING SURVEYING PLANNING
10927 WYDE DRIVE, STE 104, SAN ANTONIO, TEXAS 78217 • P: (210) 560-4777 • F: (210) 590-4900
TYPE No. 1162 • WWW.FORDEENGINEERING.COM • TBA/LS No. 10019400

MARK B. HILL
94904
08-05-2016

NO.	DATE	DESCRIPTION

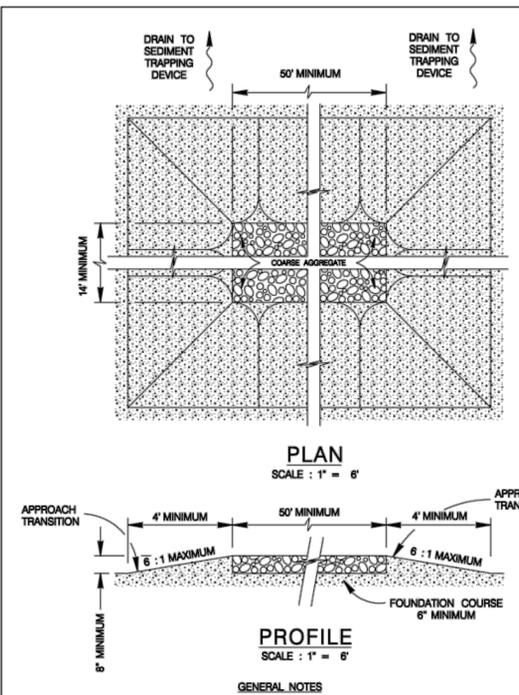
HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
STORM WATER POLLUTION PREVENTION DETAILS

PROJECT NO. 1801.18
JULY 27, 2016
C1.3

DRAWINGS AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT/ENGINEER. UNLESS THE PROJECT FOR WHICH THEY ARE INTENDED IS EXCLUDED OR NOT. THEY ARE NOT TO BE USED BY ANYONE OTHER THAN THE ARCHITECTS OR ENGINEERS TO THE PROJECT NOT COVERED IN THE CONTRACT. WITHOUT WRITTEN AGREEMENT WITH AN APPROPRIATE COMPENSATION TO FORD ENGINEERING, INC.

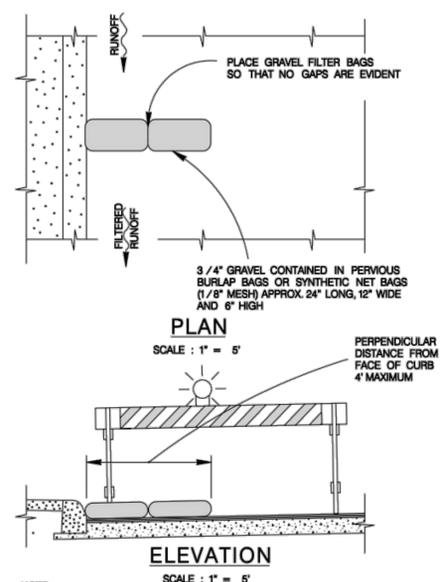


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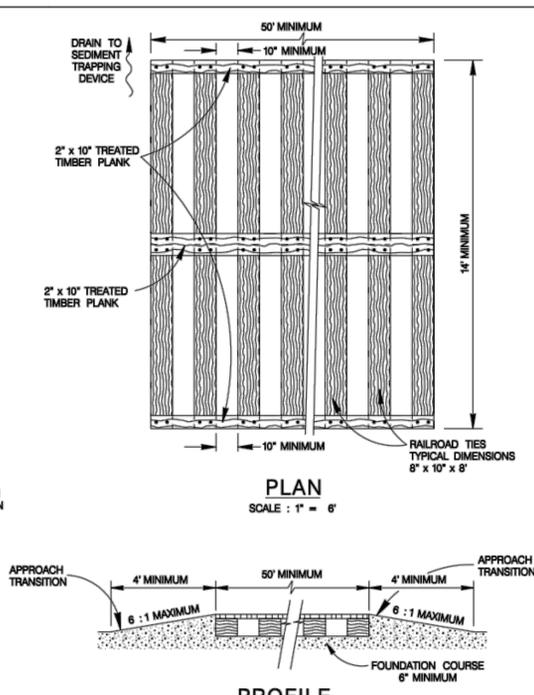
- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 1 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE COARSE AGGREGATE SHOULD BE OPEN GRADED WITH A SIZE OF 4" TO 8".
 3. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 4. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 5. THE CONSTRUCTION EXIT SHALL BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 6. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 1



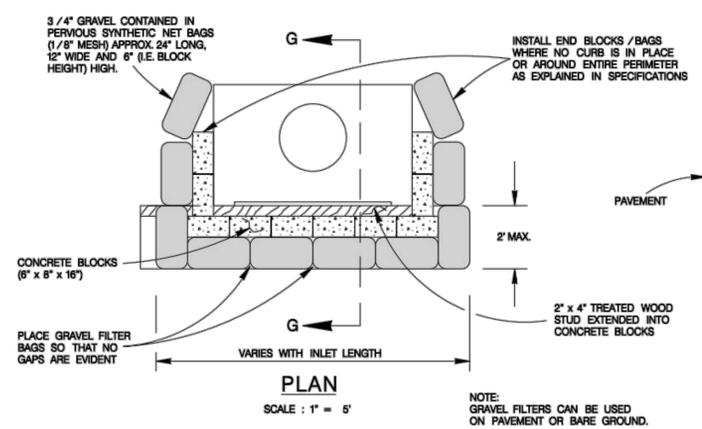
NOTE: STRADDLE GRAVEL FILTER BAGS WITH TYPE 1 BARRICADES MOUNTED WITH TYPE "A" FLASHING WARNING LIGHT. SEE BARRICADE CONSTRUCTION SIGN DETAILS. PLACE FLASHING LIGHTS AWAY FROM GLITTER, FLUSH WITH OUTSIDE EDGE OF BAG CONFIGURATION.

GRAVEL FILTER BAGS

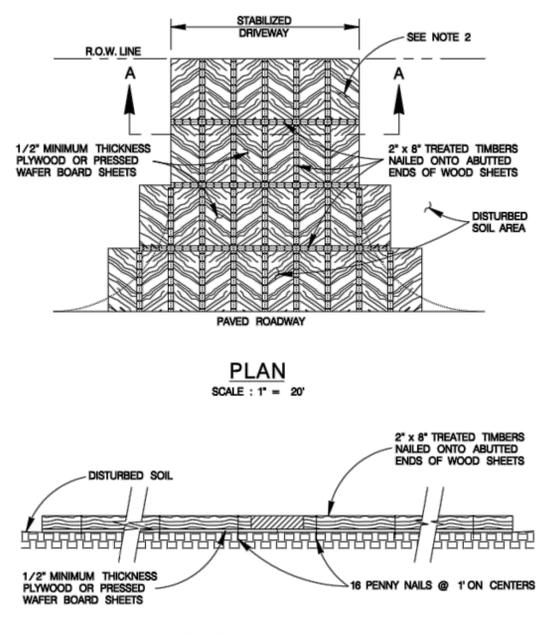


- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 2 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, BUT NOT LESS THAN 50'.
 2. THE TREATED TIMBER PLANKS SHALL BE ATTACHED TO THE RAILROAD TIES WITH 1/2" x 6" MIN. LAG BOLTS. OTHER FASTENERS MAY BE USED AS APPROVED BY THE ENGINEER.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE APPROACH TRANSITIONS SHOULD BE NO STEEPER THAN 6:1 AND CONSTRUCTED AS DIRECTED BY THE ENGINEER.
 5. THE CONSTRUCTION EXIT FOUNDATION COURSE SHALL BE FLEXIBLE BASE, BITUMINOUS CONCRETE, PORTLAND CEMENT CONCRETE OR OTHER MATERIAL AS APPROVED BY THE ENGINEER.
 6. THE CONSTRUCTION EXIT SHOULD BE GRADED TO ALLOW DRAINAGE TO A SEDIMENT TRAPPING DEVICE.
 7. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 2

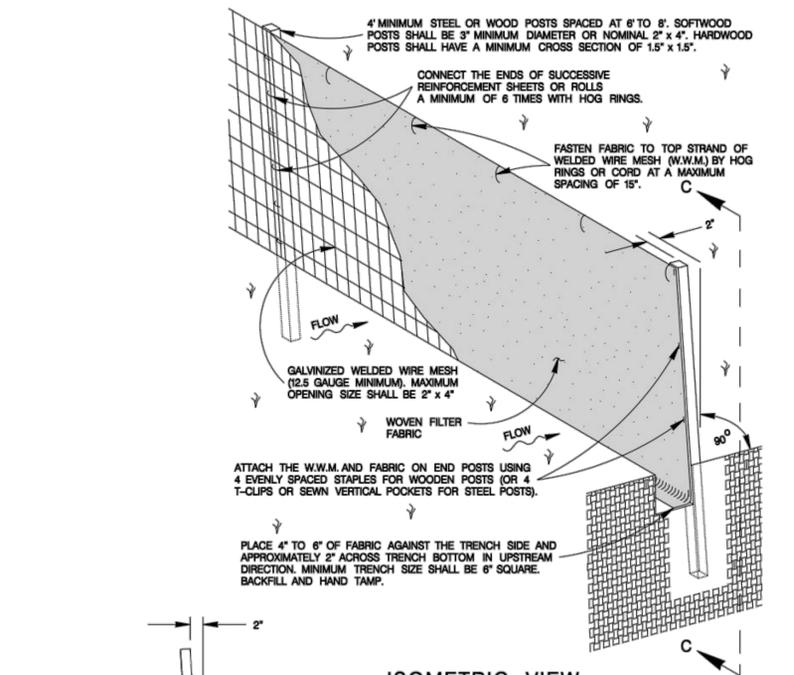


CURB INLET GRAVEL FILTER



- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

CONSTRUCTION EXIT - TYPE 3



- GENERAL NOTES**
1. THE LENGTH OF THE TYPE 3 CONSTRUCTION EXIT SHALL BE AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
 2. THE TYPE 3 CONSTRUCTION EXIT MAY BE CONSTRUCTED FROM OPEN GRADED CRUSHED STONE WITH A SIZE OF 2 TO 4 INCHES SPREAD A MINIMUM OF 4 INCHES THICK TO THE LIMITS SHOWN ON THE PLANS.
 3. THE TREATED TIMBER PLANKS SHALL BE #2 GRADE MIN., AND SHOULD BE FREE FROM LARGE AND LOOSE KNOTS.
 4. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

SECTION C-C

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A SEDIMENT CONTROL FENCE MAY BE CONSTRUCTED NEAR THE DOWNSTREAM PERIMETER OF A DISTURBED AREA ALONG A CONTOUR TO INTERCEPT SEDIMENT FROM OVERLAND RUN-OFF. A 2 YEAR STORM FREQUENCY MAY BE USED TO CALCULATE THE FLOW RATE TO BE FILTERED.

SEDIMENT CONTROL FENCE SHOULD BE SIZED TO FILTER A MAXIMUM FLOW THRU RATE OF 100 GPM /FT SQUARED. SEDIMENT CONTROL FENCE IS NOT RECOMMENDED TO CONTROL EROSION FROM A DRAINAGE AREA LARGER THAN 2 ACRES.

- GENERAL NOTES**
1. THE GUIDELINES SHOWN HEREON ARE SUGGESTIONS ONLY AND MAY BE MODIFIED BY THE ENGINEER.

TEMPORARY SEDIMENT CONTROL FENCE

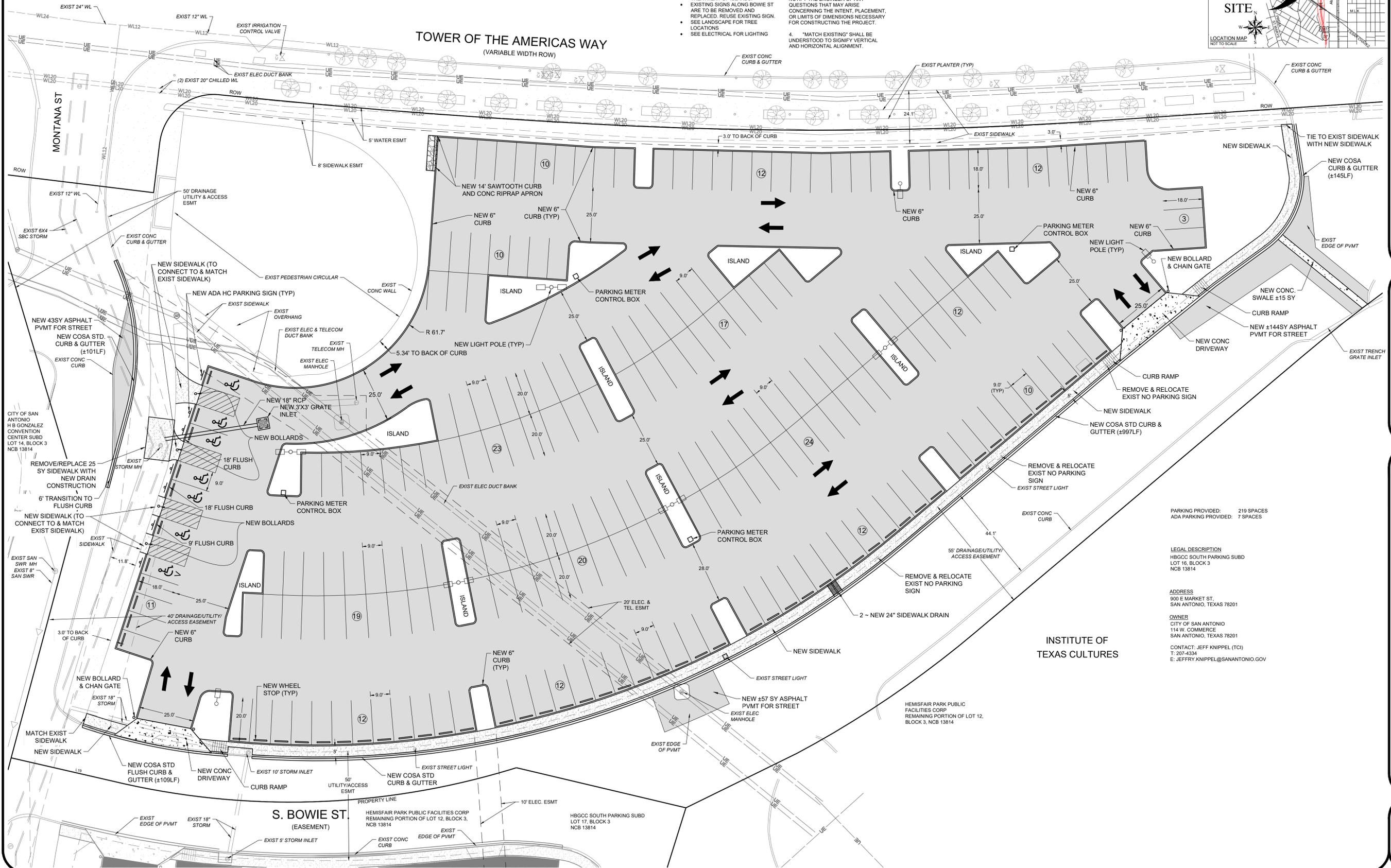
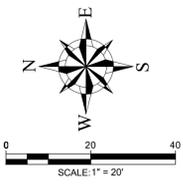
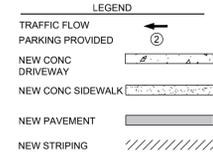
JANUARY 2005
 CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT
TEMPORARY EROSION, SEDIMENT & WATER POLLUTION CONTROL MEASURES STANDARDS 1

% SUBMITTAL PROJECT NO.:	DATE:
DRWN. BY: V. VASQUEZ	CHKD. BY: _____
SHEET NO.:	OF _____

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- NOTES:**
- INTERIOR CURBS ARE 6" CURBS, UNLESS OTHERWISE SHOWN. SEE SHEET C2.0.
 - EXTERIOR CURBS ARE STD COSA CONC. CURB UNLESS OTHERWISE SHOWN. SEE SHEET C5.2.
 - STRIPING IS 4" WHITE STRIPING UNLESS OTHERWISE SHOWN.
 - STRIPED PARKING STALLS HAVE A MINIMUM WIDTH OF 9'-0".
 - PROVIDE 6" TRANSITION TO FLUSH CURB AT ALL SIDEWALK AND DRIVEWAY OPENINGS.
 - SEE LANDSCAPE PLAN FOR TREATMENT OF ISLANDS.
 - EXISTING SIGNS ALONG BOWIE ST ARE TO BE REMOVED AND REPLACED. REUSE EXISTING SIGN. SEE LANDSCAPE FOR TREE LOCATIONS.
 - SEE ELECTRICAL FOR LIGHTING.

- DIMENSIONAL CONTROL NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB, TO FACE OF BUILDINGS, TO CENTER OF PAINT STRIPING, AND PERPENDICULAR TO THE PROPERTY LINES.
 2. COORDINATE CONTROL FOR PARKING, DRIVEWAYS, AND ISLANDS ARE AS SHOWN. NO OFFSETS FROM FACE OF CURB OR BUILDINGS ARE GIVEN.
 3. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTING THE PROJECT.
 4. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.



FORD ENGINEERING INC.
 ENGINEERING SURVEYING PLANNING
 10827 WYE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 • P: (210) 590-4777 • F: (210) 590-4940
 TYPE No. 1162 • WWW.FORDEENGINEERING.COM • TBLAS No. 10018400

MARK B. HILL
 94904
 08-05-2016

NO.	DATE	DESCRIPTION

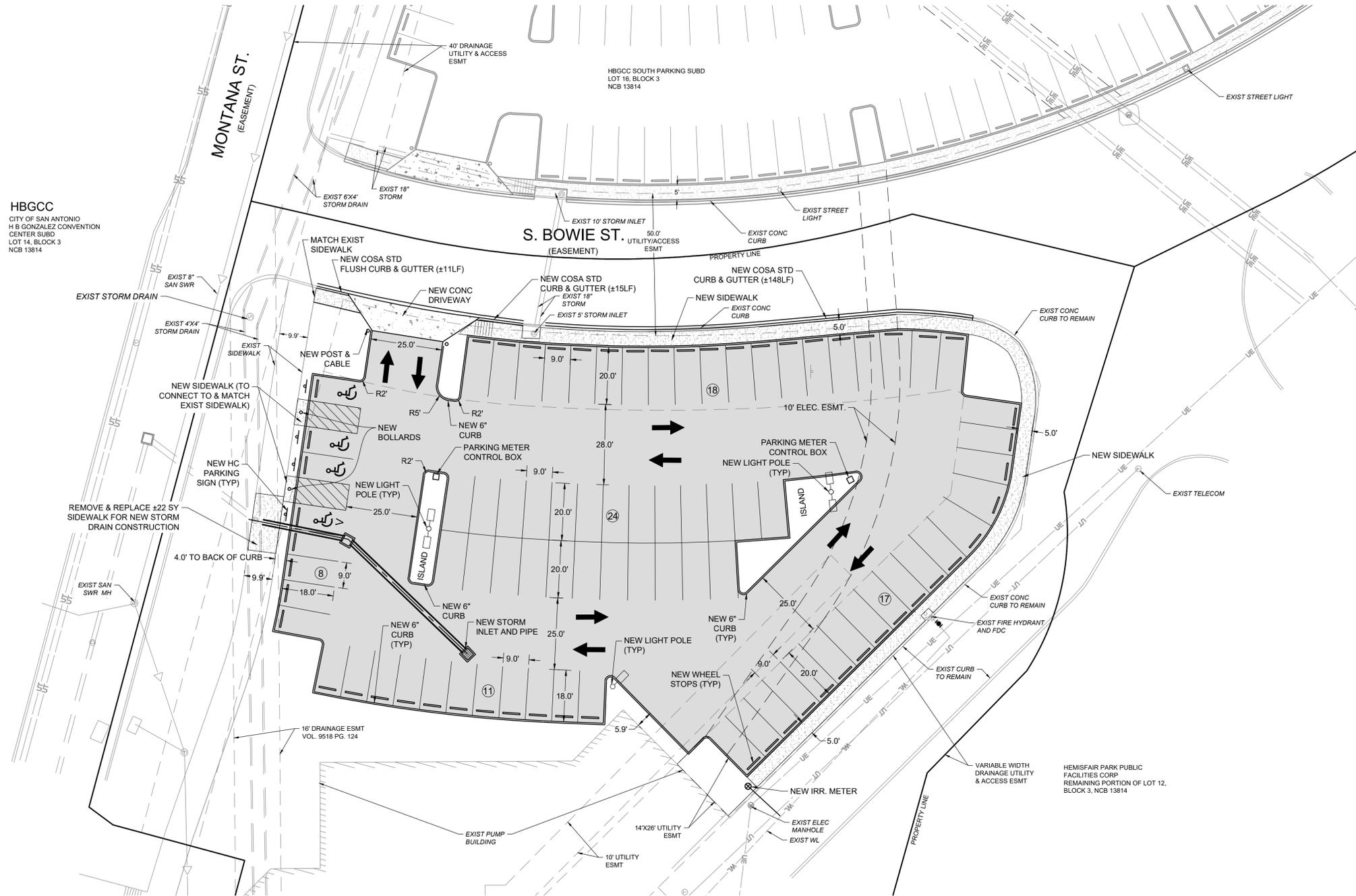
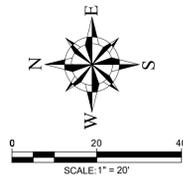
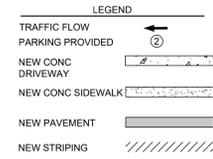
HGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 CIVIL SITE PLAN - LOT 1

PROJECT NO. 1801.18
 JULY 27, 2016
 C2.0

DRAWINGS ARE THE SOLE PROPERTY OF THE ADVISEE ENGINEER. THE ADVISEE ENGINEER'S LIABILITY IS LIMITED TO THE PROJECT FOR WHICH THEY ARE INTENDED TO BE USED. THEY ARE NOT TO BE USED FOR ANY OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE ADVISEE ENGINEER. THE ADVISEE ENGINEER'S LIABILITY IS LIMITED TO THE PROJECT FOR WHICH THEY ARE INTENDED TO BE USED. THEY ARE NOT TO BE USED FOR ANY OTHER PROJECTS OR EXTENSIONS TO THIS PROJECT WITHOUT THE WRITTEN AGREEMENT OF THE ADVISEE ENGINEER.

- NOTES:**
- INTERIOR CURBS ARE 6" CURBS UNLESS OTHERWISE SHOWN. SEE SHEET C5.0.
 - EXTERIOR CURBS ARE STD COSA CONC. CURB UNLESS OTHERWISE SHOWN. SEE SHEET C5.2.
 - STRIPING IS 4" WHITE STRIPING UNLESS OTHERWISE SHOWN. STRIPED PARKING STALLS HAVE A MINIMUM WIDTH OF 9'-FT.
 - PROVIDE 8" TRANSITION TO FLUSH CURBS AT ALL SIDEWALK AND DRIVEWAY OPENINGS.
 - SEE LANDSCAPE PLAN FOR TREATMENT OF ISLANDS.
 - EXISTING SIGNS ALONG BOWIE ST ARE TO BE REMOVED AND REPLACED. REUSE EXISTING SIGN.
 - SEE LANDSCAPE FOR TREE LOCATIONS.
 - SEE ELECTRICAL FOR LIGHTING.

- DIMENSIONAL CONTROL NOTES:**
1. ALL DIMENSIONS ARE TO FACE OF CURB, TO FACE OF BUILDINGS, TO CENTER OF PAINT STRIPING, AND PERPENDICULAR TO THE PROPERTY LINES.
 2. COORDINATE CONTROL FOR PARKING, DRIVEWAYS, AND ISLANDS ARE AS SHOWN. NO OFFSETS FROM FACE OF CURB OR BUILDINGS ARE GIVEN.
 3. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTING THE PROJECT.
 4. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.



HBGCC
CITY OF SAN ANTONIO
H B GONZALEZ CONVENTION
CENTER SUBD
LOT 14, BLOCK 3
NCB 13814

PARKING PROVIDED: 79 SPACES
ADA PARKING PROVIDED: 4 SPACES

LEGAL DESCRIPTION
HBGCC SOUTH PARKING SUBD
LOT 17, BLOCK 3
NCB 13814

ADDRESS
300 E MARKET ST.
SAN ANTONIO, TEXAS 78201

OWNER
CITY OF SAN ANTONIO
114 W. COMMERCE
SAN ANTONIO, TEXAS 78201

CONTACT: JEFF KNIPPEL (TCI)
T: 207-4334
E: JEFFRY.KNIPPEL@SANANTONIO.GOV

REVISIONS:

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
CIVIL SITE PLAN - LOT 2

PROJECT NO. 1801.18
JULY 27, 2016
C2.1

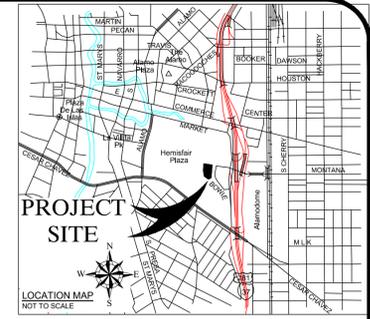
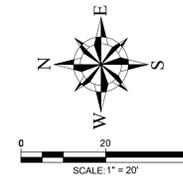
FORD ENGINEERING INC.
ENGINEERING SURVEYING PLANNING
10827 WYE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 • P: (210) 590-4777 • F: (210) 590-4940
TBP# No. 1162 • WWW.FORDEENGINEERING.COM • TBP#S No. 10018400



- NOTES:
- INTERIOR CURBS ARE 6" CURBS UNLESS OTHERWISE SHOWN.
 - EXTERIOR CURBS ARE STD COSA CONC. CURB UNLESS OTHERWISE SHOWN.
 - STRIPING IS 4" WHITE STRIPING UNLESS OTHERWISE SHOWN.
 - STRIPED PARKING STALLS HAVE A MINIMUM WIDTH OF 9'-FT.
 - PROVIDE 6" TRANSITION IN CURB TO ALL SIDEWALK AND DRIVEWAY OPENINGS
 - SEE LANDSCAPE PLAN FOR TREATMENT OF ISLANDS.
 - EXISTING SIGNS ALONG BOWIE ST ARE TO BE REMOVED AND REPLACED. REUSE EXISTING SIGN.
 - SEE LANDSCAPE FOR TREE LOCATIONS
 - SEE ELECTRICAL FOR LIGHTING

- DIMENSIONAL CONTROL NOTES:
1. ALL DIMENSIONS ARE TO FACE OF CURB, TO FACE OF BUILDINGS, TO CENTER OF PAINT STRIPING, AND PERPENDICULAR TO THE PROPERTY LINES.
 2. COORDINATE CONTROL FOR PARKING, DRIVEWAYS, AND ISLANDS ARE AS SHOWN. NO OFFSETS FROM FACE OF CURB OR BUILDINGS ARE GIVEN.
 3. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTING THE PROJECT.
 4. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.

- LEGEND
- NEW CONC DRIVEWAY
 - NEW CONC SIDEWALK
 - NEW STRIPING
 - DIMENSION CONTROL 966.00'



FORD ENGINEERING INC.
 ENGINEERING SURVEYING PLANNING
 18827 WYE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 • P: (210) 590-4777 • F: (210) 590-4940
 WWW.FORDEENGINEERING.COM • TBL/S No. 10018400

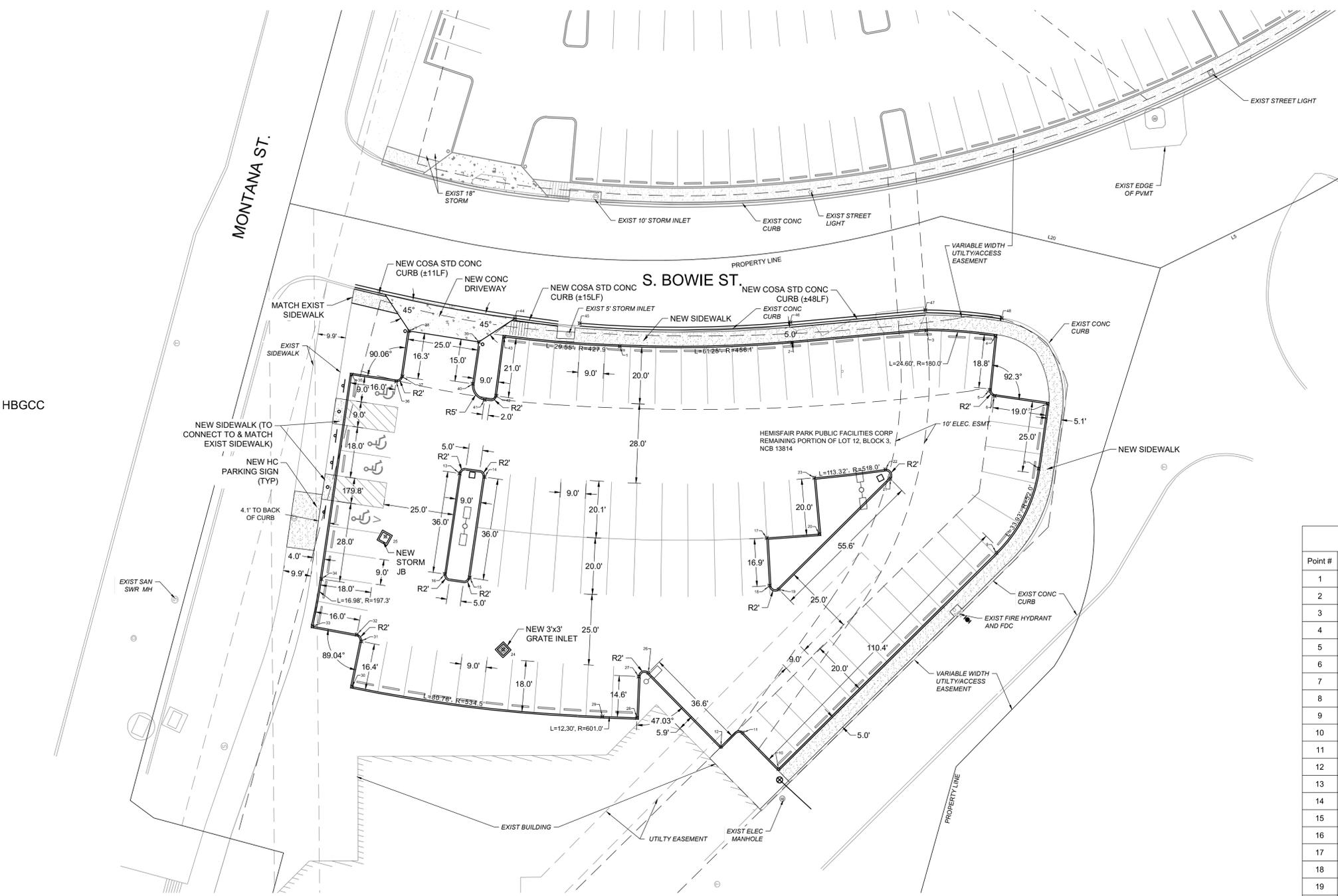


REVISIONS:

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 DIMENSIONAL CONTROL - LOT 2

PROJECT NO. 1801.18
 JULY 27, 2016
C2.3



Point Table

Point #	Northing	Easting
1	13700182.18	2133334.39
2	13700120.99	2133335.68
3	13700073.35	2133339.97
4	13700048.84	2133338.05
5	13700050.82	2133319.02
6	13700049.11	2133316.83
7	13700030.31	2133314.12
8	13700033.52	2133291.21
9	13700048.48	2133261.43
10	13700125.85	2133185.01
11	13700138.50	2133197.82
12	13700146.31	2133192.92
13	13700239.12	2133289.49
14	13700230.21	2133288.21
15	13700235.46	2133252.57
16	13700244.36	2133253.88
17	13700130.01	2133266.65
18	13700129.07	2133249.76
19	13700125.67	2133248.44
20	13700111.36	2133268.00
21	13700086.10	2133287.53
22	13700087.87	2133290.84
23	13700113.16	2133287.92
24	13700223.60	2133227.23
25	13700265.42	2133267.16

Point Table

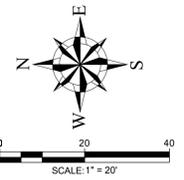
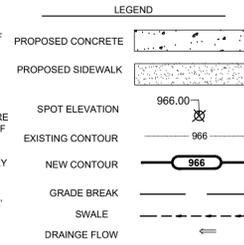
Point #	Northing	Easting
26	13700172.06	2133218.99
27	13700175.48	2133217.67
28	13700176.09	2133203.05
29	13700186.38	2133203.51
30	13700277.23	2133214.03
31	13700273.95	2133230.12
32	13700275.55	2133232.49
33	13700291.25	2133235.42
34	13700288.12	2133252.09
35	13700277.44	2133324.34
36	13700261.61	2133322.01
37	13700259.34	2133323.69
38	13700256.95	2133339.82
39	13700232.25	2133335.98
40	13700234.45	2133321.15
41	13700230.21	2133315.47
42	13700225.98	2133316.88
43	13700223.23	2133337.72
44	13700219.41	2133344.29
45	13700196.38	2133342.54
46	13700121.64	2133342.90
47	13700073.73	2133347.21
48	13700046.58	2133344.35

DRAWINGS ARE THE SOLE PROPERTY OF THE ADVISEE ENGINEER. THE PROJECT FOR WHICH THEY ARE INTENDED IS EXCLUDED FROM THEM. THEY ARE NOT TO BE USED BY ANYONE OTHER THAN THE PROJECT FOR WHICH THEY ARE INTENDED. WITHOUT WRITTEN AGREEMENT WITH AND APPROPRIATE COMPENSATION TO FORD ENGINEERING, INC.

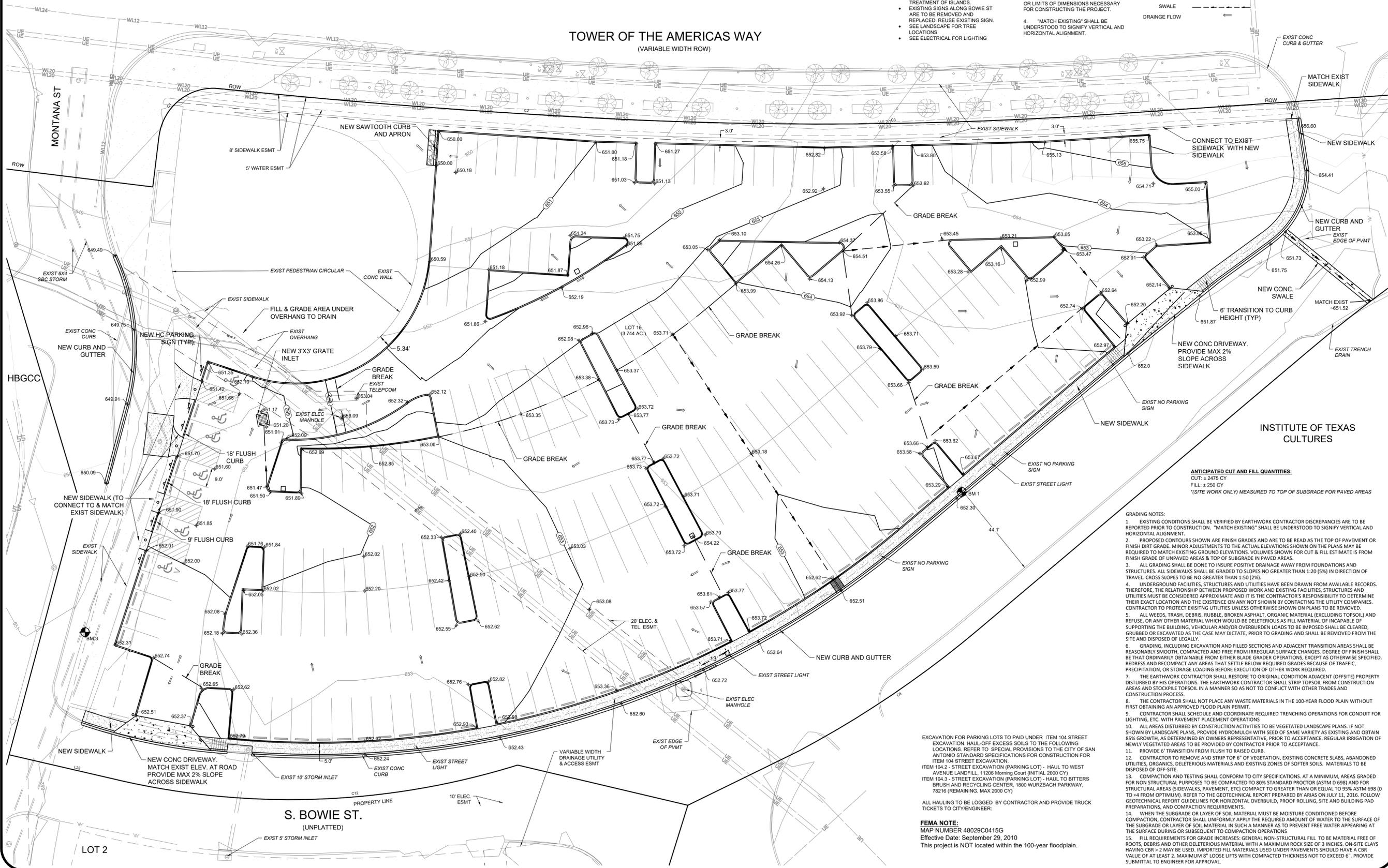
BENCHMARKS			
NORTHING	EASTING	ELEVATION	DESCRIPTION
13699863.03	2133506.78	652.52	BM-1 1rs ftc-LEVEL
13700264.94	2133440.79	651.67	BM-3 chiseled square on sw-LEVEL

- NOTES:
- INTERIOR CURBS ARE 6" CURBS UNLESS OTHERWISE SHOWN.
 - EXTERIOR CURBS ARE MACHINE LAID CURB UNLESS OTHERWISE SHOWN.
 - STRIPING IS 4" WHITE STRIPING UNLESS OTHERWISE SHOWN.
 - PROVIDE 6" TRANSITION IN CURB TO ALL SIDEWALK AND DRIVEWAY OPENINGS.
 - GRADE BEHIND CURB AT A TYPICAL SLOPE OF 4:1 OR MAXIMUM SLOPE OF 3:1.
 - PROVIDE RE-VEGETATION FOR ALL DISTURBED AREAS.
 - SEE LANDSCAPE PLAN FOR TREATMENT OF ISLANDS.
 - EXISTING SIGNS ALONG BOWIE ST ARE TO BE REMOVED AND REPLACED, REUSE EXISTING SIGN.
 - SEE LANDSCAPE FOR TREE LOCATIONS.
 - SEE ELECTRICAL FOR LIGHTING.

- DIMENSIONAL CONTROL NOTES:
- ALL DIMENSIONS ARE TO FACE OF CURB, TO FACE OF BUILDINGS, TO CENTER OF PAINT STRIPING, AND PERPENDICULAR TO THE PROPERTY LINES.
 - COORDINATE CONTROL FOR PARKING, DRIVEWAYS, AND ISLANDS ARE AS SHOWN, NO OFFSETS FROM FACE OF CURB OR BUILDINGS ARE GIVEN.
 - CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS NECESSARY FOR CONSTRUCTING THE PROJECT.
 - "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.



TOWER OF THE AMERICAS WAY
(VARIABLE WIDTH ROW)



ANTICIPATED CUT AND FILL QUANTITIES:
 CUT: ± 2475 CY
 FILL: ± 250 CY
 *SITE WORK ONLY MEASURED TO TOP OF SUBGRADE FOR PAVED AREAS

- GRADING NOTES:
- EXISTING CONDITIONS SHALL BE VERIFIED BY EARTHWORK CONTRACTOR. DISCREPANCIES ARE TO BE REPORTED PRIOR TO CONSTRUCTION. "MATCH EXISTING" SHALL BE UNDERSTOOD TO SIGNIFY VERTICAL AND HORIZONTAL ALIGNMENT.
 - PROPOSED CONTOURS SHOWN ARE FINISH GRADES AND ARE TO BE READ AS THE TOP OF PAVEMENT OR FINISH DIRT GRADE. MINOR ADJUSTMENTS TO THE ACTUAL ELEVATIONS SHOWN ON THE PLANS MAY BE REQUIRED TO MATCH EXISTING GROUND ELEVATIONS. VOLUMES SHOWN FOR CUT & FILL ESTIMATE IS FROM FINISH GRADE OF UNPAVED AREAS & TOP OF SUBGRADE IN PAVED AREAS.
 - ALL GRADING SHALL BE DONE TO INSURE POSITIVE DRAINAGE AWAY FROM FOUNDATIONS AND STRUCTURES. ALL SIDEWALKS SHALL BE GRADED TO SLOPES NO GREATER THAN 1:20 (5%) IN DIRECTION OF TRAVEL. CROSS SLOPES TO BE NO GREATER THAN 1:50 (2%).
 - UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN DRAWN FROM AVAILABLE RECORDS. THEREFORE, THE RELATIONSHIP BETWEEN PROPOSED WORK AND EXISTING FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LOCATION AND THE EXISTENCE ON ANY NOT SHOWN BY CONTACTING THE UTILITY COMPANIES. CONTRACTOR TO PROTECT EXISTING UTILITIES UNLESS OTHERWISE SHOWN ON PLANS TO BE REMOVED.
 - ALL WEEDS, TRASH, DEBRIS, RUBBLE, BROKEN ASPHALT, ORGANIC MATERIAL (EXCLUDING TOPSOIL) AND REFUSE, OR ANY OTHER MATERIAL WHICH WOULD BE DELETERIOUS AS FILL MATERIAL OF INCAPABLE OF SUPPORTING THE BUILDING, VEHICULAR AND/OR OVERBURDEN LOADS TO BE IMPOSED SHALL BE CLEARED, GRUBBED OR EXCAVATED AS THE CASE MAY DICTATE, PRIOR TO GRADING AND SHALL BE REMOVED FROM THE SITE AND DISPOSED OF LEGALLY.
 - GRADING, INCLUDING EXCAVATION AND FILLED SECTIONS AND ADJACENT TRANSITION AREAS SHALL BE REASONABLY SMOOTH, COMPACTED AND FREE FROM IRREGULAR SURFACE CHANGES. DEGREE OF FINISH SHALL BE THAT ORDINARILY OBTAINABLE FROM EITHER BLADE GRADER OPERATIONS, EXCEPT AS OTHERWISE SPECIFIED. REDRESS AND RECOMPACT ANY AREAS THAT SETTLE BELOW REQUIRED GRADES BECAUSE OF TRAFFIC, PRECIPITATION, OR STORAGE LOADING BEFORE EXECUTION OF OTHER WORK REQUIRED.
 - THE EARTHWORK CONTRACTOR SHALL RESTORE TO ORIGINAL CONDITION ADJACENT (OFFSITE) PROPERTY DISTURBED BY HIS OPERATIONS. THE EARTHWORK CONTRACTOR SHALL STRIP TOPSOIL FROM CONSTRUCTION AREAS AND STOCKPILE TOPSOIL IN A MANNER SO AS NOT TO CONFLICT WITH OTHER TRADES AND CONSTRUCTION PROCESS.
 - THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAN PERMIT.
 - CONTRACTOR SHALL SCHEDULE AND COORDINATE REQUIRED TRENCHING OPERATIONS FOR CONDUIT FOR LIGHTING, ETC. WITH PAVEMENT PLACEMENT OPERATIONS.
 - ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES TO BE VEGETATED LANDSCAPE PLANS. IF NOT SHOWN BY LANDSCAPE PLANS, PROVIDE HYDROMULCH WITH SEED OF SAME VARIETY AS EXISTING AND OBTAIN 85% GROWTH, AS DETERMINED BY OWNER'S REPRESENTATIVE, PRIOR TO ACCEPTANCE. REGULAR IRRIGATION OF NEWLY VEGETATED AREAS TO BE PROVIDED BY CONTRACTOR PRIOR TO ACCEPTANCE.
 - CONTRACTOR TO REMOVE AND STRIP TOP 6" OF VEGETATION, EXISTING CONCRETE SLABS, ABANDONED UTILITIES, ORGANICS, DELETERIOUS MATERIALS AND EXISTING ZONES OF SOFTER SOILS. MATERIALS TO BE DISPOSED OF OFF-SITE.
 - COMPACTION AND TESTING SHALL CONFORM TO CITY SPECIFICATIONS. AT A MINIMUM, AREAS GRADED FOR NON STRUCTURAL PURPOSES TO BE COMPACTED TO 80% STANDARD PROCTOR (ASTM D 698) AND FOR STRUCTURAL AREAS (SIDEWALKS, PAVEMENT, ETC) COMPACT TO GREATER THAN OR EQUAL TO 95% ASTM 698 (10 TO 4" FROM OPTIMUM) REFER TO THE GEOTECHNICAL REPORT PREPARED BY ARIAS ON JULY 11, 2016. FOLLOW GEOTECHNICAL REPORT GUIDELINES FOR HORIZONTAL OVERBUILD, PROOF ROLLING, SITE AND BUILDING PAD PREPARATIONS, AND COMPACTION REQUIREMENTS.
 - WHEN THE SUBGRADE OR LAYER OF SOIL MATERIAL MUST BE MOISTURE CONDITIONED BEFORE COMPACTION, CONTRACTOR SHALL UNIFORMLY APPLY THE REQUIRED AMOUNT OF WATER TO THE SURFACE OF THE SUBGRADE OR LAYER OF SOIL MATERIAL IN SUCH A MANNER AS TO PREVENT FREE WATER APPEARING AT THE SURFACE DURING OR SUBSEQUENT TO COMPACTION OPERATIONS.
 - FILL REQUIREMENTS FOR GRADE INCREASES: GENERAL NON-STRUCTURAL FILL TO BE MATERIAL FREE OF ROOTS, DEBRIS AND OTHER DELETERIOUS MATERIAL WITH A MAXIMUM ROCK SIZE OF 3 INCHES. ON-SITE CLAYS HAVING CBR > 2 MAY BE USED. IMPORTED FILL MATERIALS USED UNDER PAVEMENT SHOULD HAVE A CBR VALUE OF AT LEAST 2. MAXIMUM 8" LOOSE LIFTS WITH COMPACTED THICKNESS NOT TO EXCEED 6". PROVIDE SUBMITTAL TO ENGINEER FOR APPROVAL.

EXCAVATION FOR PARKING LOTS TO PAID UNDER ITEM 104 STREET EXCAVATION. HAUL-OFF EXCESS SOILS TO THE FOLLOWING LOCATIONS: REFER TO SPECIAL PROVISIONS TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR ITEM 104 STREET EXCAVATION.
 ITEM 104.2 - STREET EXCAVATION (PARKING LOT) - HAUL TO WEST AVENUE LANDFILL, 11208 Morning Court (INITIAL 2000 CY)
 ITEM 104.3 - STREET EXCAVATION (PARKING LOT) - HAUL TO BITTERS BRUSH AND RECYCLING CENTER, 1800 WURZBACH PARKWAY, 78216 (REMAINING, MAX 2000 CY)

ALL HAULING TO BE LOGGED BY CONTRACTOR AND PROVIDE TRUCK TICKETS TO CITY/ENGINEER.

FEMA NOTE:
 MAP NUMBER 48029C0415G
 Effective Date: September 29, 2010
 This project is NOT located within the 100-year floodplain.

FORD ENGINEERING INC.
 ENGINEERING SURVEYING PLANNING
 10827 WYE DRIVE, STE 104, SAN ANTONIO, TEXAS 78277 • P: (210) 560-4777 • F: (210) 560-4940
 TFB# No. 1162 • WWW.FORDEENGINEERING.COM • TFB#S No. 10019400

MARK B. HILL
 94904
 08-10-2016

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 GRADING PLAN - LOT 1

PROJECT NO. 1801.18
 AUGUST 8, 2016
C3.0

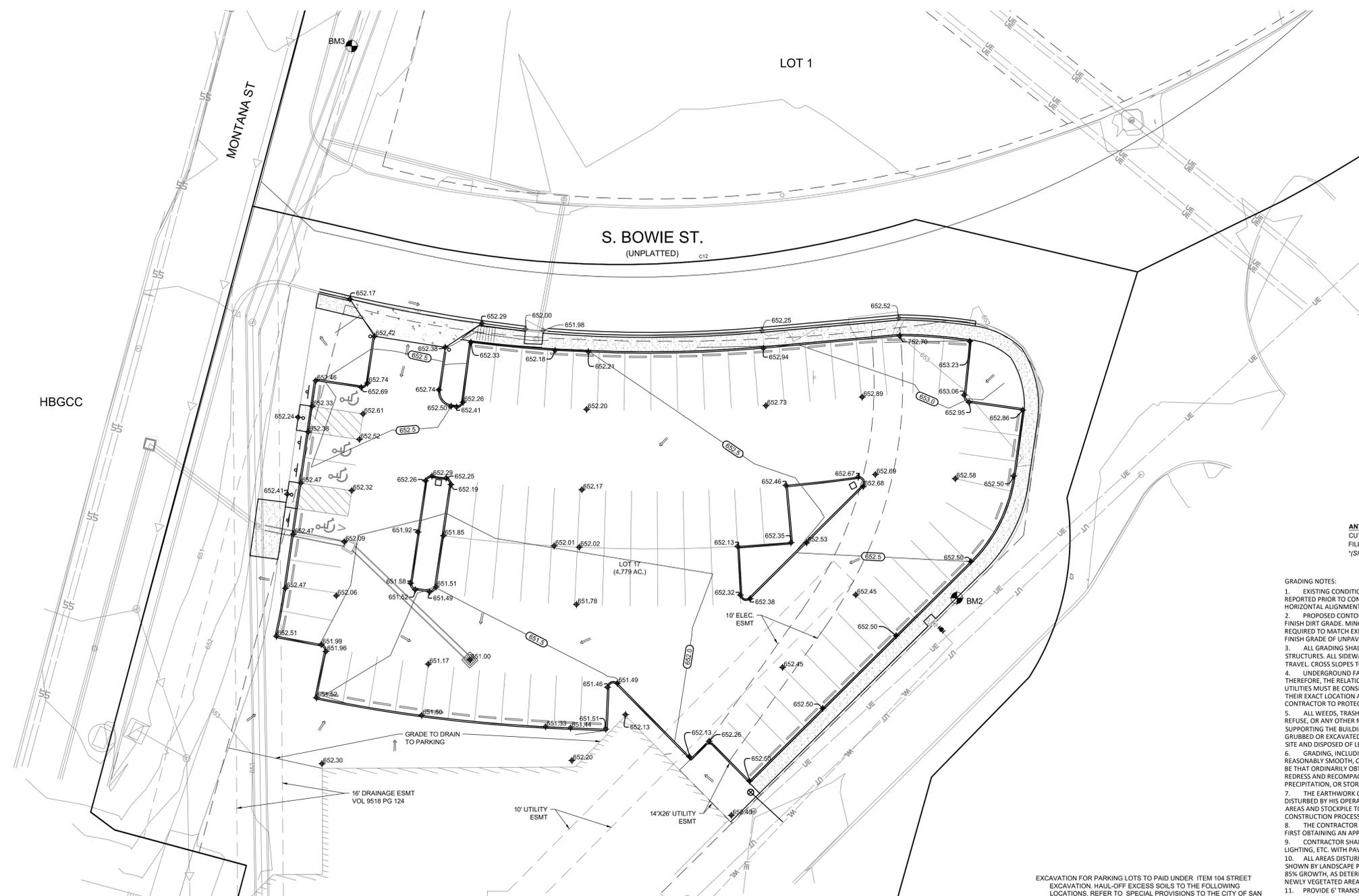
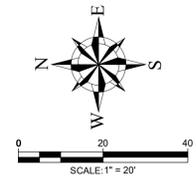
NORTHING	EASTING	ELEVATION	DESCRIPTION
13700053.37	2133248.72	652.85	BM-2 chiseled square on curb-LEVEL
13700264.94	2133440.79	651.67	BM-3 chiseled square on sw-LEVEL

- NOTES:
- INTERIOR CURBS ARE 6" CURBS UNLESS OTHERWISE SHOWN.
 - EXTERIOR CURBS ARE MACHINE LAID CURB UNLESS OTHERWISE SHOWN.
 - STRIPING IS 4" WHITE STRIPING UNLESS OTHERWISE SHOWN.
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 - PROVIDE RE-VEGETATION FOR ALL DISTURBED AREAS.
 - SEE LANDSCAPE PLAN FOR TREATMENT OF ISLANDS.
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LEGEND

PROPOSED CONCRETE	
PROPOSED SIDEWALK	
SPOT ELEVATION	966.00
EXISTING CONTOUR	966
NEW CONTOUR	966
GRADE BREAK	
SWALE	
DRAINAGE FLOW	



ANTICIPATED CUT AND FILL QUANTITIES:
 CUT: ±1239 CY
 FILL: ±100 CY
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 - PROVIDE 6" TRANSITION FROM FLUSH TO RAISED CURB.
 - CONTRACTOR TO REMOVE AND STRIP TOP 6" OF VEGETATION, EXISTING CONCRETE SLABS, ABANDONED UTILITIES, ORGANICS, DELETERIOUS MATERIALS AND EXISTING ZONES OF SOFTER SOILS. MATERIALS TO BE DISPOSED OF OFF-SITE.
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EXCAVATION FOR PARKING LOTS TO PAID UNDER ITEM 104 STREET EXCAVATION - HAUL-OFF EXCESS SOILS TO THE FOLLOWING LOCATIONS, REFER TO SPECIAL PROVISIONS TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION FOR ITEM 104 STREET EXCAVATION:
 ITEM 104.2 - STREET EXCAVATION (PARKING LOT) - HAUL TO WEST AVENUE LANDFILL, 11206 Morning Court (INITIAL 2000 CY)
 ITEM 104.3 - STREET EXCAVATION (PARKING LOT) - HAUL TO BITTERS BRUSH AND RECYCLING CENTER, 1800 WURZBACH PARKWAY, 78216 (REMAINING, MAX 2000 CY)

ALL HAULING TO BE LOGGED BY CONTRACTOR AND PROVIDE TRUCK TICKETS TO CITY/ENGINEER.
FEMA NOTE:
 MAP NUMBER 48029C0415G
 Effective Date: September 29, 2010
 This project is NOT located within the 100-year floodplain.

DRAWINGS ARE THE SOLE PROPERTY OF THE ARCHITECT/ENGINEER. WHATEVER THE PROJECT FOR WHICH THEY ARE INTENDED IS EXECUTED OR NOT, THEY ARE NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER. THE ARCHITECT/ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY CAUSED BY THE USE OF THESE DRAWINGS. THE ARCHITECT/ENGINEER'S LIABILITY IS LIMITED TO THE PROJECT AND THE DATE OF THE CONTRACT. WITHOUT WRITTEN AGREEMENT WITH AN APPROPRIATE CONTRIBUTION TO FORD ENGINEERING, INC.

FORD ENGINEERING INC.

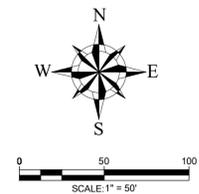
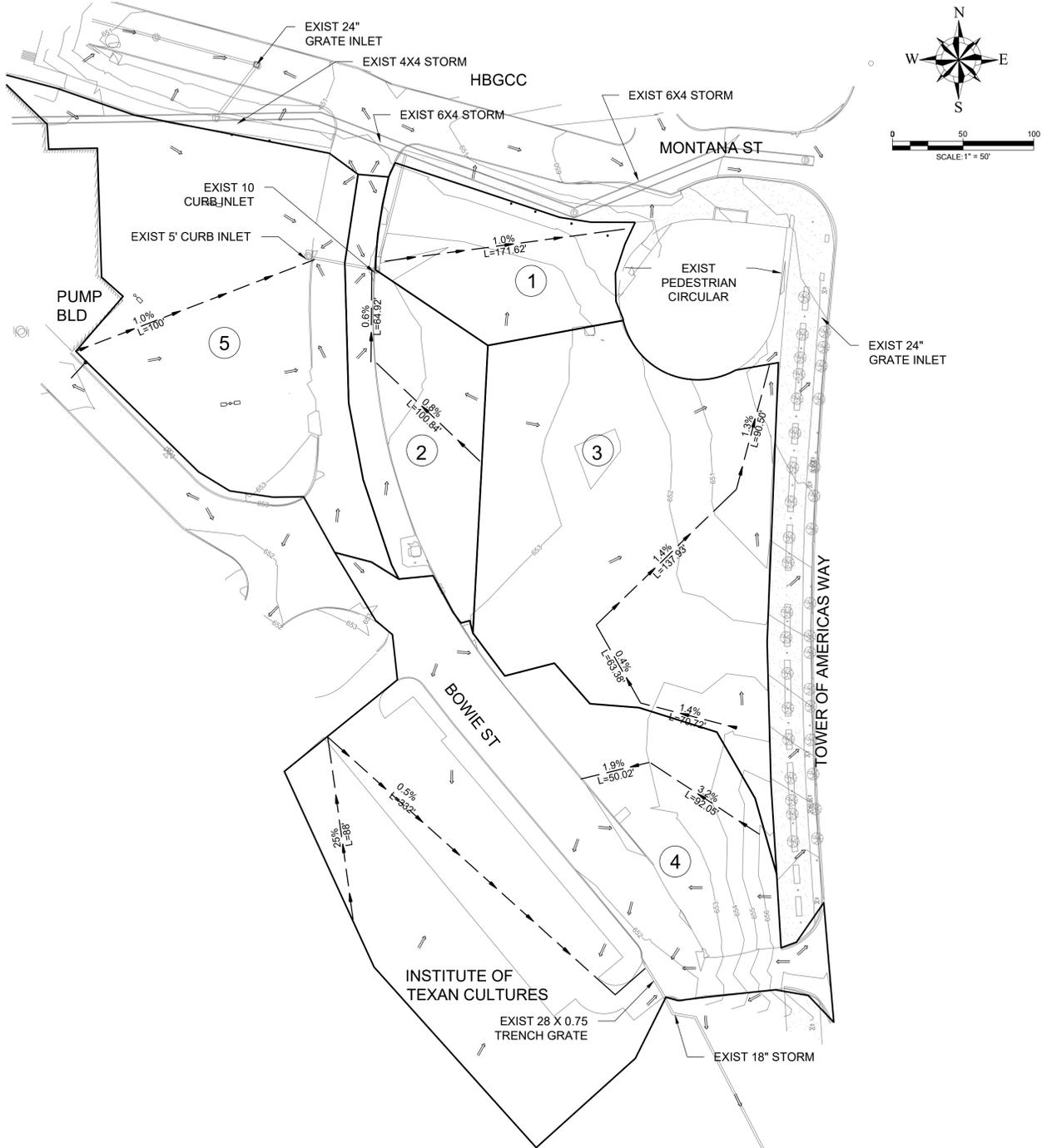
ENGINEERING SURVEYING PLANNING

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 TBP# No. 1162 • WWW.FORDEENGINEERING.COM • TBP#S No. 10019400

NO.	DATE	DESCRIPTION

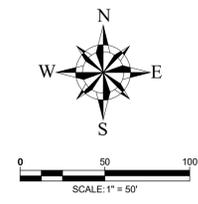
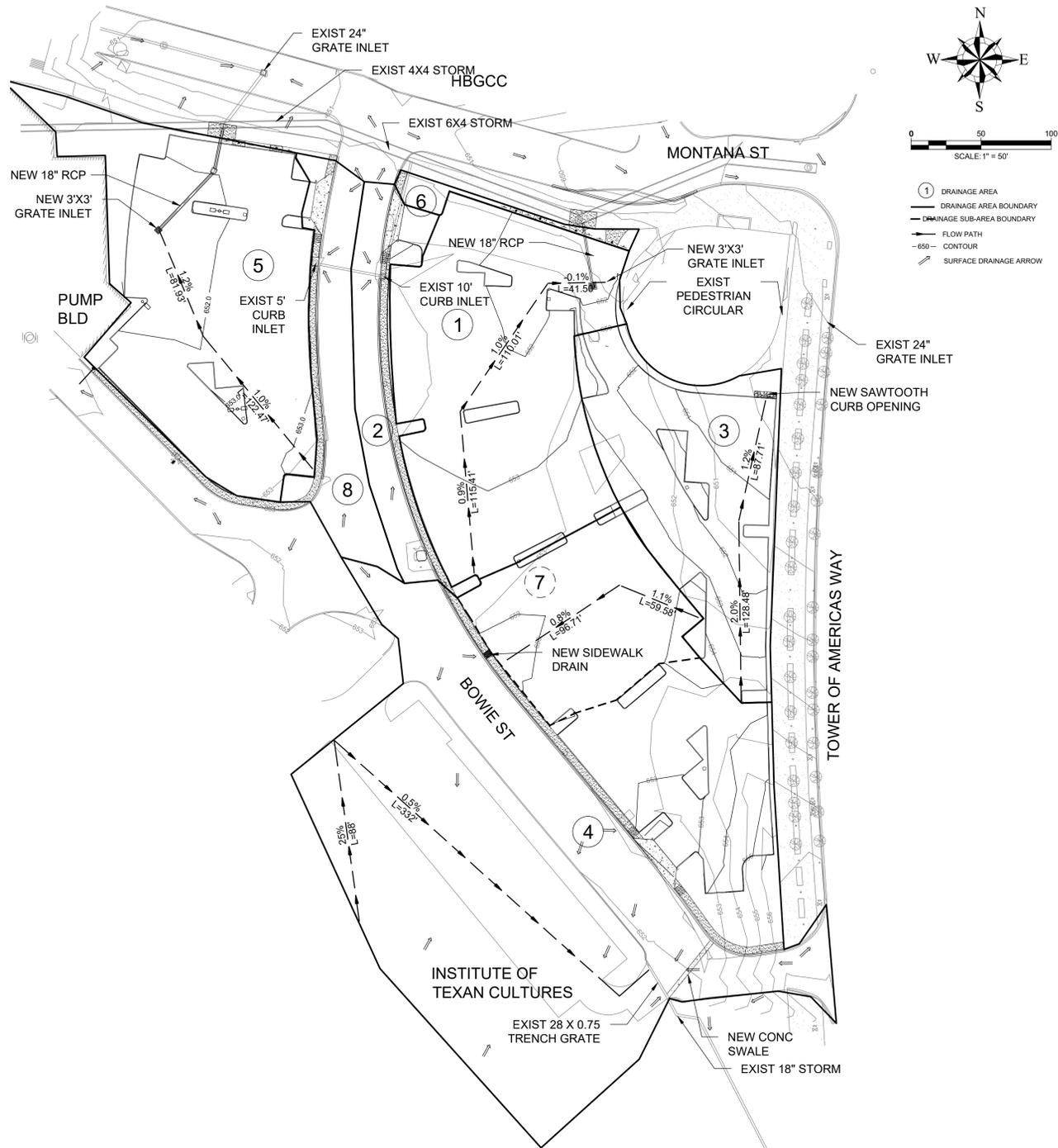
HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 GRADING PLAN - LOT 2

PROJECT NO. 1801.18
 AUGUST 8, 2016
C3.1



EXISTING CONDITIONS

Area Name	Acres	TC, min	Ave C	i-5	i-10	i-25	Q-5	Q-10	Q-25, cfs
1.00	0.347	12.2	0.47	5.96	6.89	7.82	1.0	1.1	1.3
2.00	0.435	13.4	0.63	5.73	6.65	7.52	1.6	1.8	2.1
3.00	1.205	9.4	0.47	6.59	7.55	8.66	3.7	4.3	4.9
4.00	1.877	7.1	0.74	7.51	8.49	9.90	10.5	11.9	13.9
5.00	1.049	12.4	0.96	5.92	6.85	7.77	6.0	6.9	7.8



PROPOSED CONDITIONS

Area Name	Acres	TC, min	Ave C	i-5	i-10	i-25	Q-5	Q-10	Q-25, cfs
1	0.772	5.0	0.47	8.40	9.41	11.10	3.0	3.4	4.0
2	0.216	5.0	0.95	8.40	9.41	11.10	1.7	1.9	2.3
3	0.521	5.0	0.95	8.40	9.41	11.10	4.1	4.6	5.4
4	2.318	7.6	0.86	7.29	8.27	9.61	14.5	16.5	19.2
5	0.811	12.4	0.96	5.92	6.85	7.77	4.6	5.3	6.0
6	0.036	5.0	0.96	8.40	9.41	11.10	0.3	0.3	0.4
7	0.349	5.0	0.96	8.40	9.41	11.10	2.8	3.2	3.7
8	0.239	5.0	0.96	8.40	9.41	11.10	1.9	2.2	2.5

DRAWINGS ARE THE SOLE PROPERTY OF FORD ENGINEERING, INC. ANY REPRODUCTION OR USE OF THESE DRAWINGS FOR ANY OTHER PROJECTS, OR EXTENSION TO THE PROJECT NOT COVERED IN THE CONTRACT, WITHOUT WRITTEN AGREEMENT WITH AND APPROPRIATE COMPENSATION TO FORD ENGINEERING, INC.

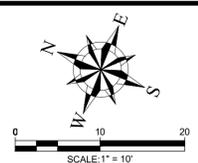
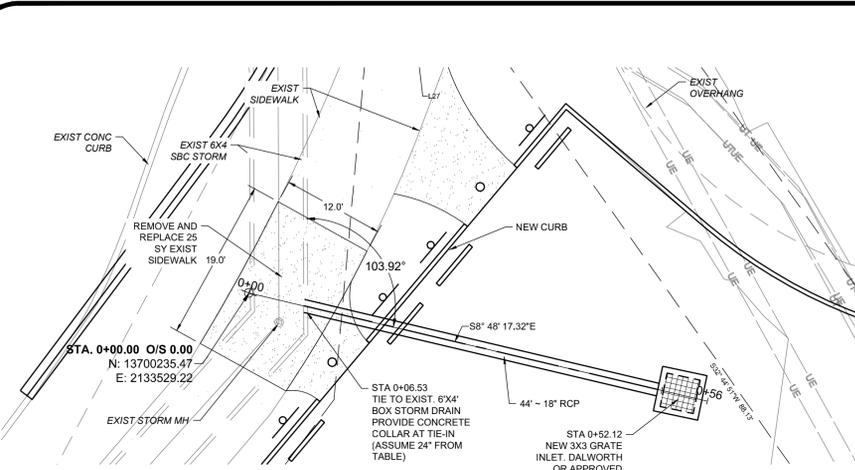
FORD ENGINEERING INC.
 ENGINEERING SURVEYING PLANNING
 10927 WYDE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 P: (210) 560-4777 F: (210) 560-4940
 TYPE No. 1162 WWW.FORDEENGINEERING.COM TBLAS No. 10018400



REVISIONS:		DESCRIPTION
NO.	DATE	

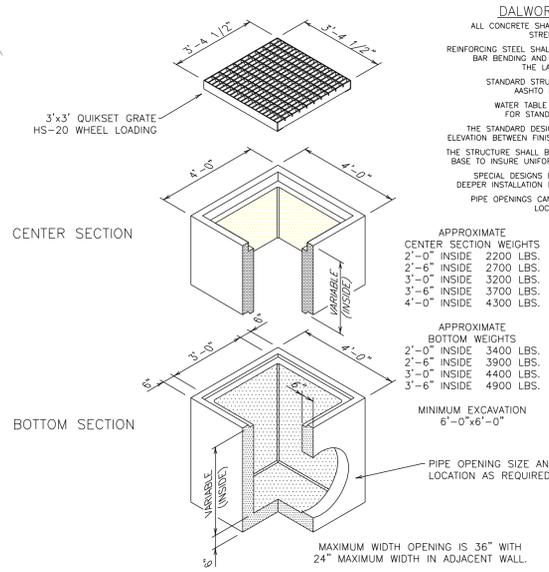
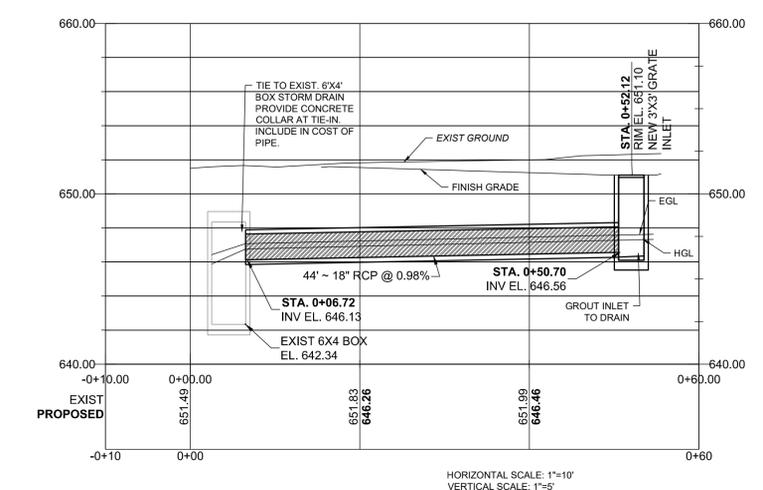
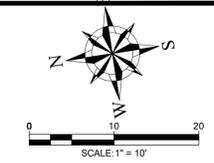
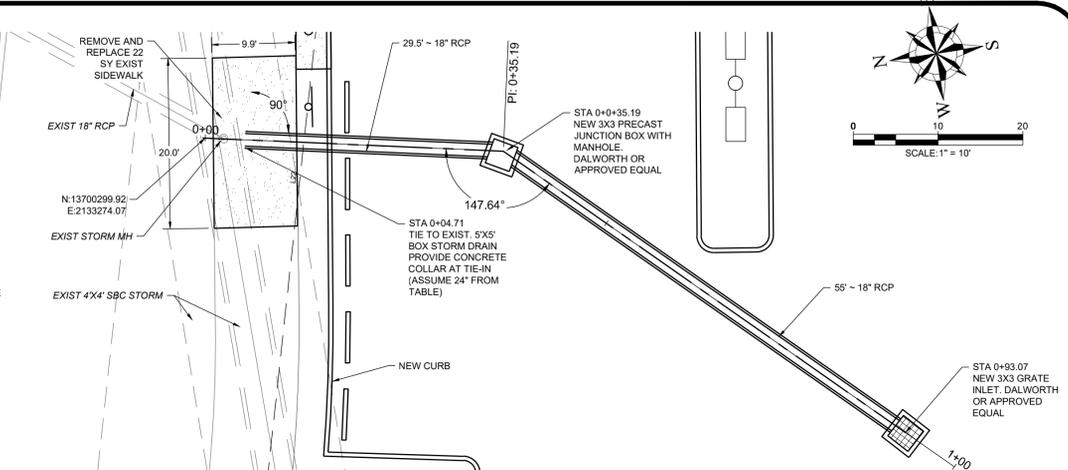
HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 DRAINAGE AREA MAP

PROJECT NO. 1801.18
 JULY 27, 2016
C4.0

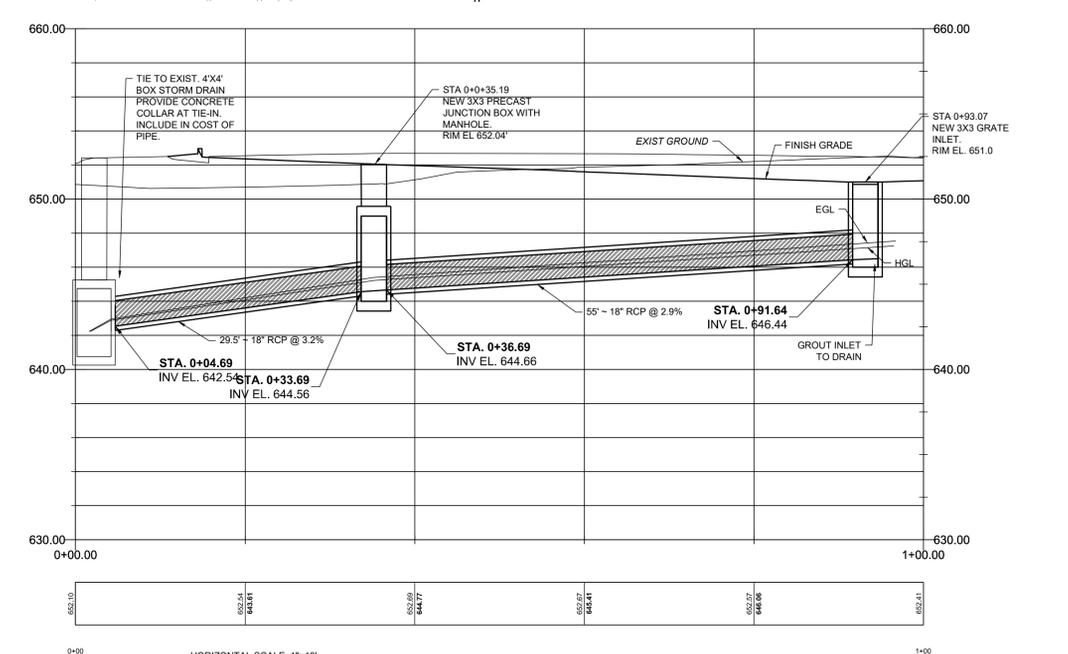


NOTES:

- ALL REINFORCED CONCRETE PIPE (RCP) TO BE CLASS 3 (PER COSA STD. SPECIFICATION). 3'X3 GRATE INLET TO BE PRECAST
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORM WATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS.
- THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE.
- ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
- CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
- NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
- UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORINGS PITS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORINGS PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL.



3'-0" x 3'-0" QUIKSET GRATE INLET (G133)
(NOT TO SCALE)

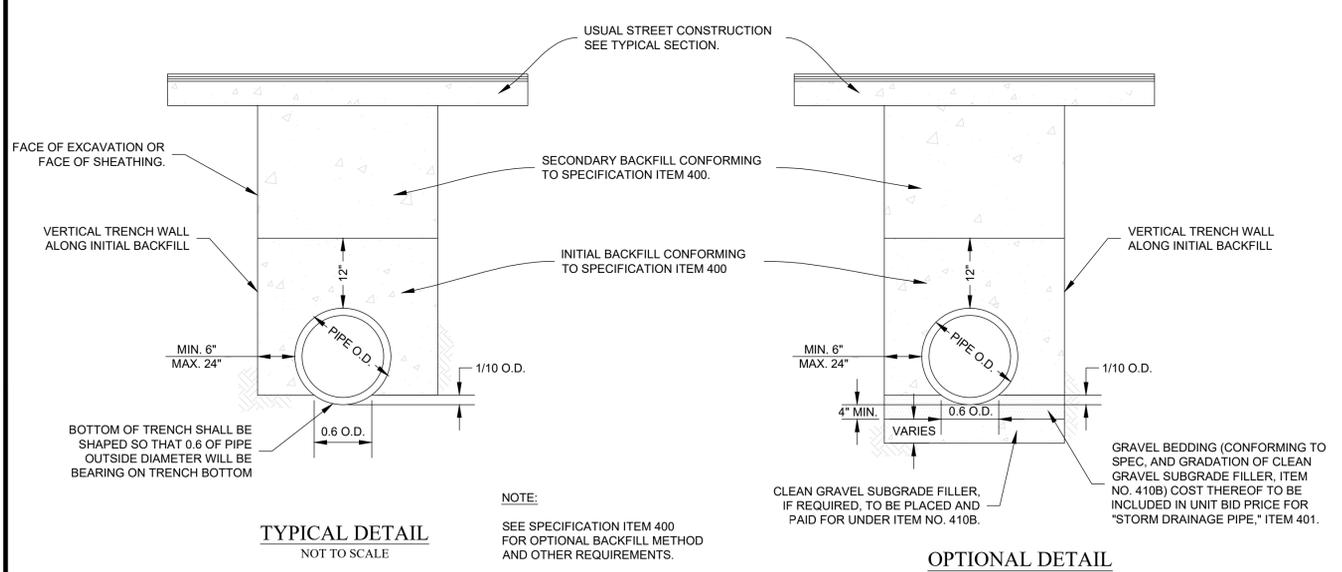


LineNo.	FlowRate (cfs)	Line Size (Rise x Span) (in)	LineType	LineLength (ft)	Invert Elev. Down (ft)	Invert Elev. Up (ft)	LineSlope (%)	HGLDown (ft)	HGLUp (ft)	EGLDown (ft)	EGLUp (ft)	MinorLoss (ft)	HGLJunct (ft)
1	3.90	18.00	Cir	46.10	646.12	646.57	0.98	646.76	647.32	647.06	647.62	0.30	647.32

PARKING LOT 1 STORM DRAIN

LineNo.	FlowRate (cfs)	Line Size (Rise x Span) (in)	LineType	LineLength (ft)	Invert Elev. Down (ft)	Invert Elev. Up (ft)	LineSlope (%)	HGLDown (ft)	HGLUp (ft)	EGLDown (ft)	EGLUp (ft)	MinorLoss (ft)	HGLJunct (ft)
1	3.10	18.00	Cir	55.00	644.66	646.44	3.20	645.23	647.11	645.40	647.36	0.25	647.11
2	3.10	18.00	Cir	29.50	642.54	644.56	6.85	642.88	645.23	642.90	645.40	2.50	645.23

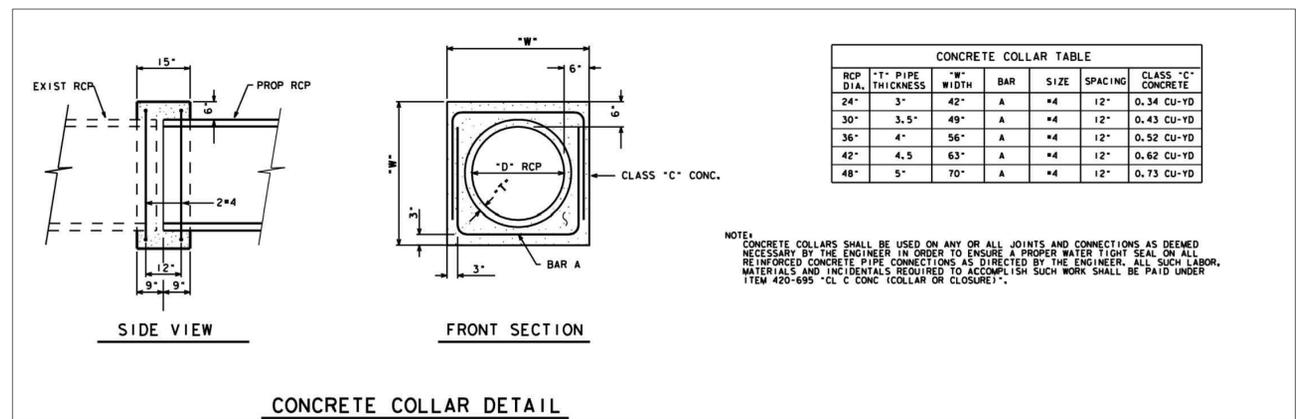
PARKING LOT 2 STORM DRAIN



TYPICAL DETAIL
NOT TO SCALE

OPTIONAL DETAIL
NOT TO SCALE

PIPE BEDDING AND BACKFILL DETAILS



CONCRETE COLLAR DETAIL

RCP DIA.	T-PIPE THICKNESS	W-WIDTH	BAR SIZE	SPACING	CLASS 'C' CONCRETE
24"	3"	42"	A	#4 12"	0.34 CU-YD
30"	3.5"	49"	A	#4 12"	0.43 CU-YD
36"	4"	56"	A	#4 12"	0.52 CU-YD
42"	4.5"	63"	A	#4 12"	0.62 CU-YD
48"	5"	70"	A	#4 12"	0.73 CU-YD

NOTE: CONCRETE COLLARS SHALL BE USED ON ANY OR ALL JOINTS AND CONNECTIONS AS DEEMED NECESSARY BY THE ENGINEER IN ORDER TO ENSURE A PROPER WATER TIGHT SEAL ON ALL REINFORCED CONCRETE PIPE CONNECTIONS AS DIRECTED BY THE ENGINEER. ALL SUCH LABOR, MATERIALS AND INCIDENTALS REQUIRED TO ACCOMPLISH SUCH WORK SHALL BE PAID UNDER ITEM 420-695 'CL C CONC (COLLAR OR CLOSURE)'.

DRAWINGS ARE THE SOLE PROPERTY OF THE ADVANCE ENGINEERS, INC. THE PROJECTS FOR WHICH THEY ARE INTENDED IS EXCLUDED FROM ANY AND ALL OTHER PROJECTS OR ENTERPRISES TO WHICH THEY ARE REFERRED IN THE CONTRACT. WITHOUT WRITTEN AGREEMENT WITH AND APPROPRIATE COMPENSATION TO ADVANCE ENGINEERS, INC.

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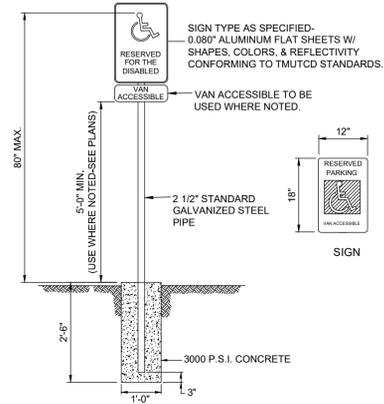
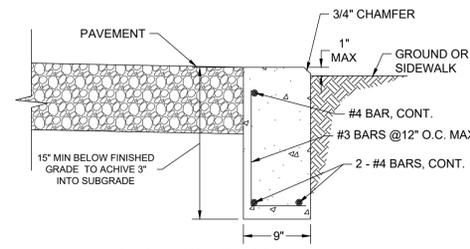
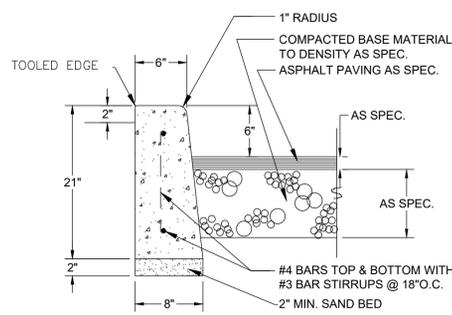
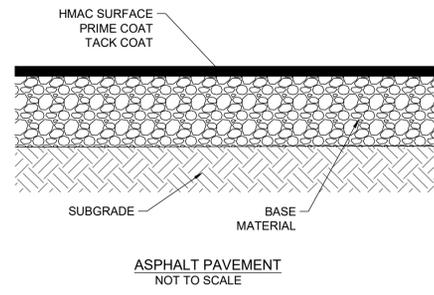
MARK B. HILL
Professional Engineer
94904
08-05-2016

NO.	DATE	DESCRIPTION

HGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
STORM DRAIN

PROJECT NO. 1801.18
JULY 27, 2016
C4.1

ASPHALT PAVEMENT		ON-SITE	STREET
HOT MIX ASPHALTIC CONCRETE (HMAC) SURFACE	City of San Antonio Item 205.4 - TYPE D 91% to 95% Theoretical Lab Density (TEX 207 F) (PG 64-22 or higher grade binder)	2"	3"
HOT MIX ASPHALTIC CONCRETE (HMAC) BASE	City of San Antonio Item 205.2 - Type B (5" lifts max) (PG 64-22 or higher grade binder)		8"
FLEXIBLE BASE	TxDOT Item 247, Type A or D, Grade 1 or 2 ASTM D 1557 (Modified Compaction) 95% compaction at -2 to +3 from optimum	8"	
SUBGRADE	6" MOISTURE CONDITIONED SUBGRADE ASTM D 1557 (Modified Compaction) 95% compaction at -2 to +3 from optimum	6"	6"



GENERAL PAVING OPERATIONS:

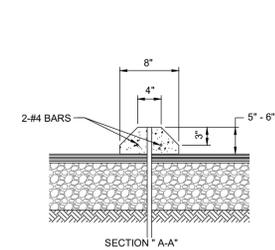
- CONTRACTOR SHALL UNDERSTAND THAT OTHER CONCURRENT CONSTRUCTION OPERATIONS MAY BE TAKING PLACE ADJACENT TO THE SITE AND AGREE TO FULLY COOPERATE WITH OTHER GENERAL CONTRACTORS AND WORK PROCESSES. ALL CONTRACTORS ON SITE SHALL TAKE GREAT CARE NOT TO ADVERSELY AFFECT THE CAPABILITY OF OTHER CONTRACTORS TO PERFORM THEIR REQUIRED WORK. OWNER'S PROJECT MANAGER WILL COORDINATE SEPARATE CONTRACT OPERATIONS. GENERAL CONTRACTOR PERFORMING THE WORK UNDER THIS CONTRACT SHALL COOPERATE FULLY WITH OWNER AND OTHERS INCLUDING, BUT NOT LIMITED TO, SCHEDULING, WORK AREA ACCESS, ETC.
- AT BUILDING, UTILITIES, OR SITE STRUCTURES, CONTRACTORS SHALL TAKE CARE NOT TO DISTURB FOUNDATIONS, BUILDING COMPONENTS, EXISTING UTILITIES, OR OTHER SITE STRUCTURES DURING PAVEMENT OPERATIONS. EXCAVATIONS ADJACENT TO FOUNDATIONS SHALL NOT BE ALLOWED TO RETAIN WATER.
- THE CONTRACTOR MAY DESIRE TO ESTABLISH AN ALTERNATE ENTRANCE TO THE SITE FOR PAVEMENT OPERATIONS TO PREVENT DRIVING HEAVY EQUIPMENT AND APPLICATION OF LOADS ONTO NEW PAVING. MOTOR DRIVEN EQUIPMENT (OR OTHER HEAVILY LOADED EQUIPMENT) SHALL BE ALLOWED ON THE PAVEMENTS ONLY AFTER THE TIME INDICATED IN THE SPECIFICATIONS FOR CURING AND STRENGTH GAIN. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED APPROVALS PRIOR TO INSTALLATION OF AN ALTERNATIVE ENTRANCE.
- CONTRACTOR SHALL SCHEDULE AND COORDINATE REQUIRED TRENCHING OPERATIONS FOR CONDUIT FOR LIGHTING, ETC. WITH EXISTING UTILITIES AND WITH PAVEMENT PLACEMENT OPERATIONS. UNDERGROUND CONDUITS TO BE INSTALLED PRIOR TO THE COMMENCEMENT OF PAVEMENT OPERATIONS.
- CONTRACTOR SHALL FIELD VERIFY DIMENSIONS AT THE SITE.
- FOLLOW CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR PAVEMENT MATERIALS, PREPARATION, AND CONSTRUCTION.

PAVING SUBGRADE PREPARATION:

- THE SITE SHALL HAVE BEEN ROUGH GRADED AND PROPERLY COMPACTED PRIOR TO BEGINNING SUBGRADE PREPARATION. ALL CONTRACTORS SHALL INSPECT THE SITE AND MAKE ANY DETERMINATIONS NECESSARY CONCERNING WORK THAT MAY NOW BE REQUIRED CONCERNING EXISTING CONDITIONS RELATING TO THE SPECIFICATIONS AND GENERAL NOTES.
- REMOVE AND DISPOSE OF ALL OBSTRUCTIONS WHICH WOULD HINDER THE PREPARATION OF THE SITE FOR PAVEMENT CONSTRUCTION. THIS INCLUDES ALL ORGANIC MATTER AND OTHER CONCRETE OR DEBRIS; IF ANY SUCH MATERIALS ARE PRESENT.
- ANY TOP SOIL AND VEGETATION THAT MAY BE PRESENT SHALL BE STRIPPED TO A DEPTH OF AT LEAST 6" AND REMOVED. THE EXISTING SUBGRADE SHALL BE PROOF ROLLED WITH A LOADED DUMP TRUCK OR SIMILAR EQUIPMENT WITH A GEOTECHNICAL ENGINEER'S REPRESENTATIVE PRESENT.
- ANY SOFT AREAS, AREAS OF PUMPING/TUTTING, SHOULD BE EXCAVATED TO FIRM MATERIALS, SELECT FILL REPLACED.
- HORIZONTAL EXTENT OF SUBGRADE PREP TO EXTEND 2- FEET BEHIND CURB.
- IN THE AREA OF ALL PAVING OPERATIONS, WHERE NECESSARY TO SATISFY THE DENSITY AND MOISTURE CONTENTS SCARIFY THE EXPOSED SUBGRADE TO A DEPTH OF AT LEAST SIX INCHES, ADJUST THE MOISTURE CONTENT AND RECOMPACT AS DEFINED BY ASTM D-698. ALTERNATIVELY, SOILS MAY BE COMPACTED AS DEFINED BY TxDOT TEST METHOD TEX-113-E AT MOISTURE CONTENT ABOVE OPTIMUM.
- ANY SOIL REQUIRED FOR USE AS "SELECT FILL" OR FOR USE IN ESTABLISHING THE FINAL GRADES INDICATED ON THE SITE GRADING PLAN SHALL BE SELECT FILL. SELECT FILL SHALL CONSIST OF A SANDY CLAY OR CLAYEY SAND WITH A LIQUID LIMIT LESS THAN 35 AND PLASTICITY INDEX BETWEEN 5 AND 15.
- UNLESS OTHERWISE SPECIFIED, IN-PLACE DENSITY TESTS OF SUBGRADE AND ANY REQUIRED SELECT FILL SHALL BE TAKEN AT THE RATE OF ONE TEST PER 5,000 SQUARE FEET FOR EACH LIFT. DENSITY TESTS IN UTILITY TRENCHES SHALL BE TAKEN AT INTERVALS NOT GREATER THAN 100 LINEAL FEET OF TRENCH.
- THE TESTING LABORATORY SHALL GIVE WRITTEN RESULTS OF TESTS TO THE CONTRACTOR PRIOR TO LEAVING THE PROJECT SITE IN ORDER TO NOT ALLOW SUBSEQUENT WORK TO COVER UNACCEPTABLE TESTED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSURING THAT THIS NOTIFICATION OCCURS. WRITTEN TEST REPORTS OF THE SOIL COMPACTION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL BEFORE BEGINNING PLACEMENT OF PAVEMENT CONCRETE.
- PROPER DRAINAGE SHALL BE MAINTAINED AT ALL TIMES BOTH UNDER AND ADJACENT TO PAVEMENT. EXCAVATIONS, OR STRIPS BETWEEN PAVEMENT SECTIONS, SHALL AT NO TIME BE ALLOWED TO RETAIN WATER. IF EXCAVATIONS, OR SUBGRADE BECOME WET, THE WET MATERIALS SHALL BE REMOVED TO DRY, SOUND MATERIAL; AND THE TESTING LABORATORY SHALL PERFORM TESTS TO CONFIRM APPROPRIATE DENSITY PRIOR TO PLACEMENT OF CONCRETE.
- SEE TABLE 10 OF THE GEOTECHNICAL REPORT PREPARED BY ARIAS AND ASSOCIATES FOR PROJECT COMPACTION, MOISTURE AND TESTING REQUIREMENTS.

6" CONC. CURB DETAIL
(NOT TO SCALE)

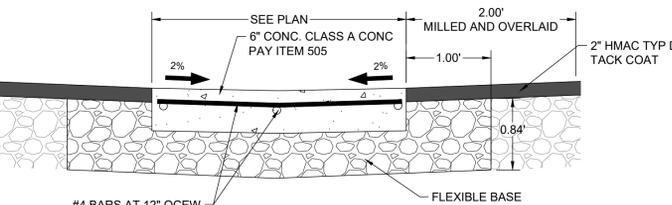
HEADER/FLUSH CURB
(NOT TO SCALE)



PRECAST WHEELSTOP - 6" (MINIMUM) LONG HELD IN PLACE BY 2-3/4"Ø x 18" PIN PROVIDE ONE WHEELSTOP EACH STALL OR AS SHOWN ON PLANS.

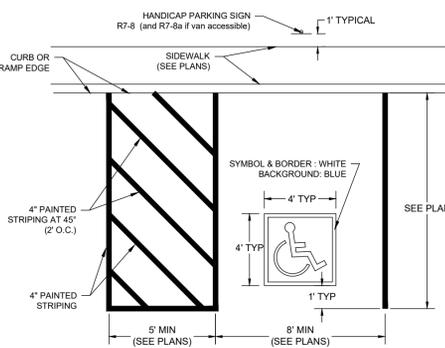
NOTE: DIMENSIONS SHOWN ARE MIN. 3000 P.S.I. CONCRETE

PRECAST CONCRETE WHEEL STOP
(NOT TO SCALE)



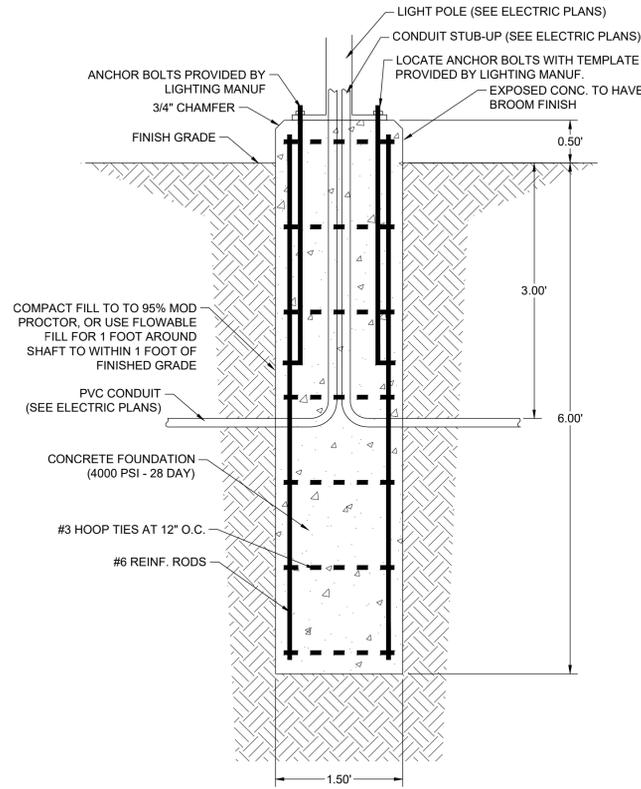
CONCRETE SWALE
(NOT TO SCALE)

SIGN SUPPORT & FOUNDATION DETAIL
(NOT TO SCALE)

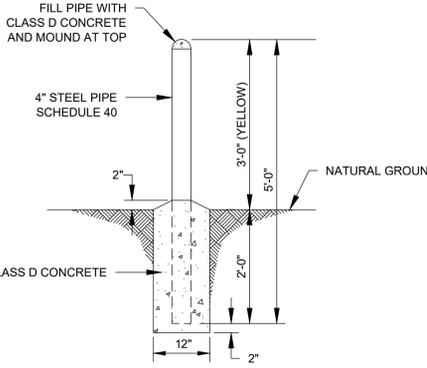


HANDICAP STRIPING DETAIL
(NOT TO SCALE)

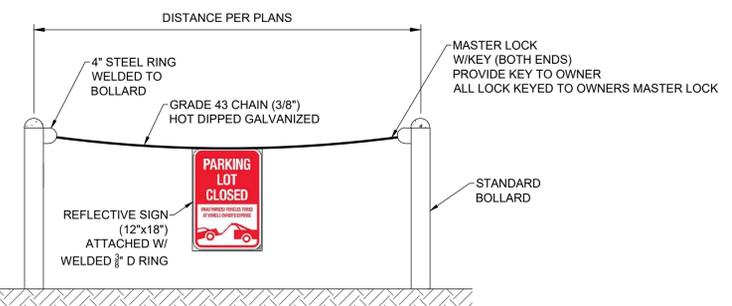
- HC NOTES:
- ALL PARKING SPACE LIMIT LINES SHALL BE 4" SOLID WHITE LINES.
 - ISLE MARKINGS SHOWN ARE EXAMPLES ONLY. OTHER METHODS TO INDICATE A NO PARKING AREA ACCEPTABLE.
 - ISLE MARKINGS SHALL BE WHITE.
 - PAVEMENT MARKING SYMBOLS (WITH BACKGROUND):
A) ARE REQUIRED UNLESS STATED ELSEWHERE IN THE PLANS.
B) SHOULD BE PLACED TOWARD THE FAR END OF THE PARKING SPACES SO AS TO BE VISIBLE TO MOTORISTS IN THE TRAVEL LANE.
C) MAY BE POINTED OR PREFABRICATED MATERIAL, AND D) SHALL BE 30" X 30" MINIMUM.
 - WITH APPROVAL OF THE ENGINEER, PREFABRICATED PAVEMENT MARKING SYMBOLS WITH BACKGROUND OF OTHER DIMENSIONS EXCEEDING THE 30" X 30" MINIMUM MAY BE USED. ALTERNATIVE DESIGNS SHALL INCLUDE A PROPORTION SIZED SYMBOL OF ACCESSIBILITY, AND SHALL CONFORM TO THE COLORS FOR BACKGROUND, SYMBOL AND BORDER.
 - AN R7-B SIGN:
A) SHALL BE REQUIRED FOR EACH ACCESSIBLE PARKING SPACE.
B) SHALL NOT BE PLACED BETWEEN TWO ACCESSIBLE PARKING SPACES.
C) SHALL NOT BE PLACED IN A LOCATION THAT RESTRICTS MOVEMENT OF WHEELCHAIRS WITHIN THE ADJACENT SIDEWALK, AND
D) SHALL HAVE A MINIMUM MOUNTING HEIGHT OF 7 FEET IF MOUNTED TO WALL OR LOCATED SO AS NOT TO BE NEAR PEDESTRIAN TRAFFIC; MINIMUM MOUNTING HEIGHT MAY BE 7 FEET.
 - POST MOUNTED SIGNS SHOULD BE PLACED APPROXIMATELY 1 FOOT (OR GREATER) BEHIND THE CURB TO PREVENT DAMAGE FROM VEHICLE OVERHANG.
 - SIGNS MAY BE MOUNTED DIRECTLY TO AN ADJACENT WALL OF A BUILDING WHEN POST MOUNTING IS IMPRACTICAL.



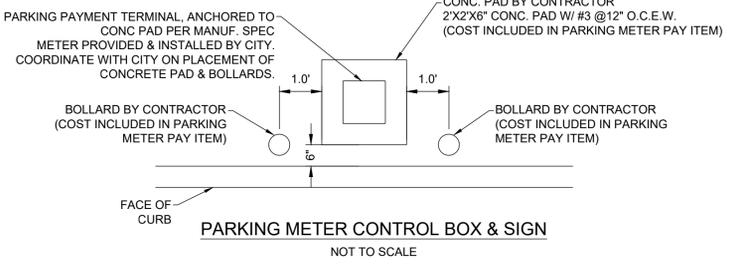
LIGHT POLE FOUNDATION
(NOT TO SCALE)



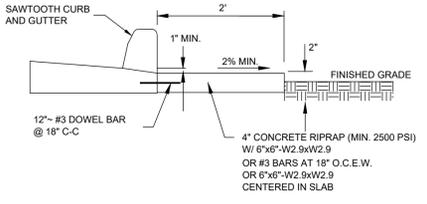
STANDARD BOLLARD DETAIL
(NOT TO SCALE)



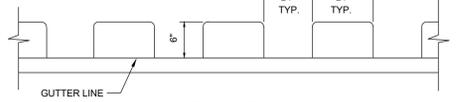
BOLLARD & CHAIN GATE
(NOT TO SCALE)



PARKING METER CONTROL BOX & SIGN
(NOT TO SCALE)



CONCRETE FLUME BEHIND SAWTOOTH CURB AND GUTTER



SAWTOOTH CURB AND GUTTER

CONCRETE NOTE: ALL CONCRETE FOR SIDEWALK, CURBS, AND FLATWORK WILL MEET CITY OF SAN ANTONIO STANDARDS AND SPECIFICATIONS

DRAWINGS ARE THE SOLE PROPERTY OF THE ADVISEE ENGINEER. THE ADVISEE ENGINEER'S LIABILITY FOR THIS PROJECT IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE ADVISEE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT. THE ADVISEE ENGINEER'S LIABILITY IS LIMITED TO THE DESIGN AND CONSTRUCTION OF THE PROJECT.

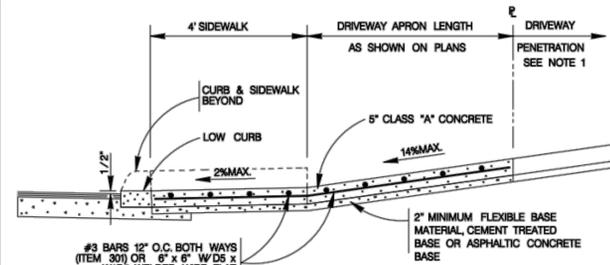
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MARK B. HILL
94904
08-05-2016

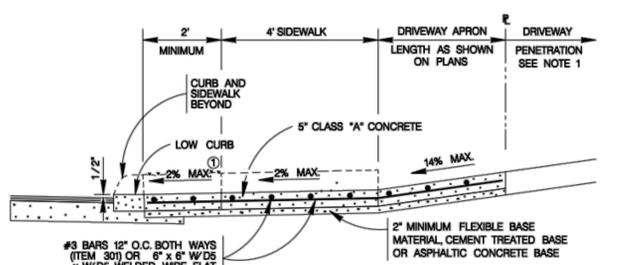
NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
CIVIL DETAILS

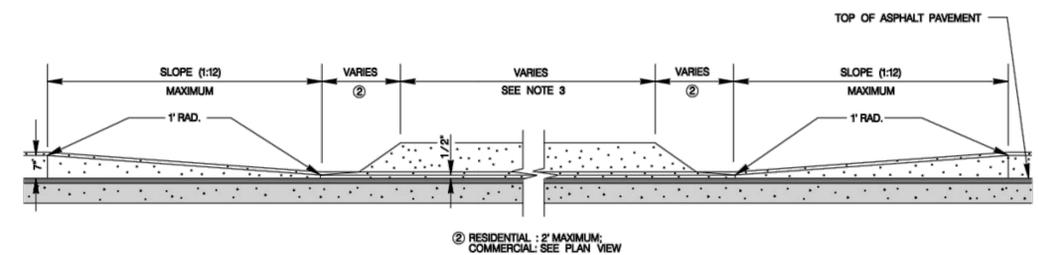
PROJECT NO. 1801.18
JULY 27, 2016
C5.0



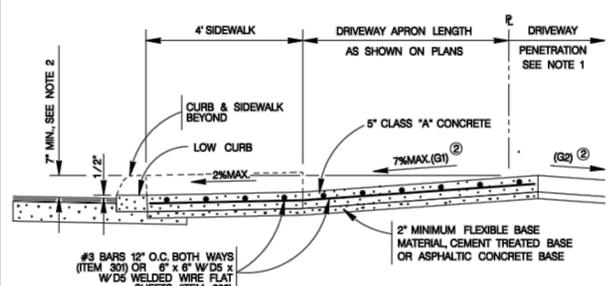
TYPICAL RESIDENTIAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
ITEM 503.1



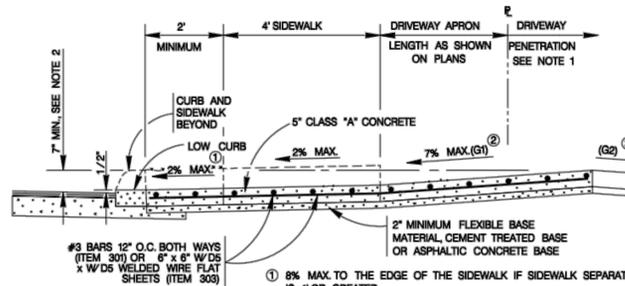
TYPICAL RESIDENTIAL DRIVEWAY SECTION
WITH SIDEWALK SEPARATED FROM CURB
ITEM 503.1



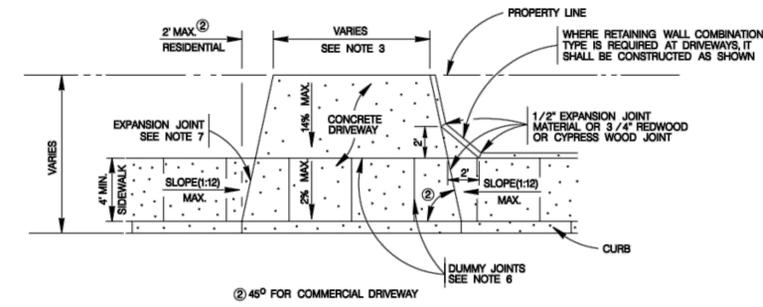
CURB PROFILE AT DRIVEWAY
WITH SIDEWALK ABUTTING CURB



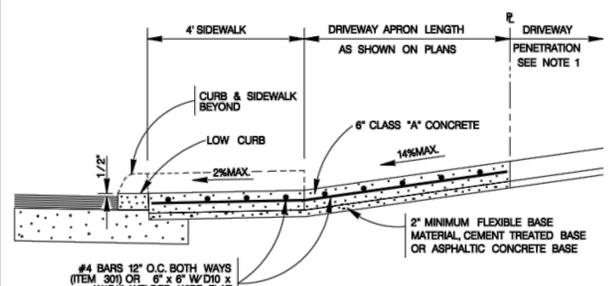
TYPICAL RESIDENTIAL DRIVEWAY SECTION
WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS ABUTTING CURB
ITEM 503.1



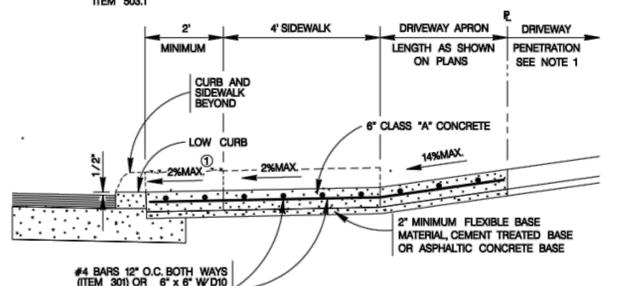
TYPICAL RESIDENTIAL DRIVEWAY SECTION
WHERE PROPERTY IS LOWER THAN STREET & SIDEWALK IS SEPARATED FROM CURB
ITEM 503.1



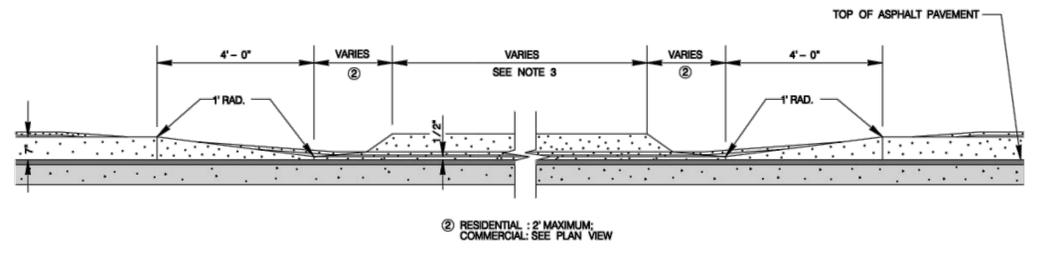
TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK ABUTTING CURB



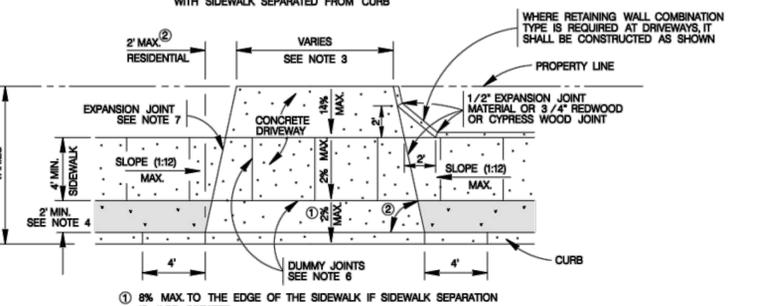
TYPICAL COMMERCIAL DRIVEWAY SECTION
WITH SIDEWALK ABUTTING CURB
ITEM 503.2



TYPICAL COMMERCIAL DRIVEWAY SECTION
WITH SIDEWALK SEPARATED FROM CURB
ITEM 503.2



CURB PROFILE AT DRIVEWAY
WITH SIDEWALK SEPARATED FROM CURB



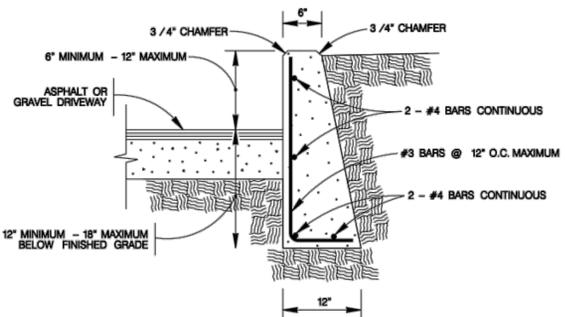
TYPICAL DRIVEWAY PLAN VIEW
WITH SIDEWALK SEPARATED FROM CURB

CONCRETE DRIVEWAY NOTES

- DRIVEWAY PENETRATION REFERS TO A PORTION OF THE DRIVEWAY THAT MAY BE NECESSARY TO RECONSTRUCT WITHIN PRIVATE PROPERTY TO COMPLY WITH A MAXIMUM DRIVEWAY SLOPE. THIS PORTION OF THE DRIVEWAY SHALL BE PAID FOR UNDER THE FOLLOWING ITEMS AS MAY APPLY:
A) CONCRETE DRIVEWAY PAID FOR UNDER ITEM NO. 503.1 OR 503.2.
B) ASPHALTIC CONCRETE DRIVEWAY PAID FOR UNDER ITEM NO. 503.4 AND SHALL INCLUDE A MINIMUM OF 1" ASPHALT TYPE 'D' & 6" FLEXIBLE BASE
C) GRAVEL DRIVEWAY PAID FOR UNDER ITEM NO. 503.5 AND SHALL INCLUDE A MINIMUM OF 6" FLEXIBLE BASE
- 7" MINIMUM HEIGHT WILL NOT NECESSARILY OCCUR AT THE PROPERTY LINE. IT MAY OCCUR WITHIN THE RIGHT OF WAY OR WITHIN THE DRIVEWAY PENETRATION ON PRIVATE PROPERTY.
- THE PROPOSED DRIVEWAY SHOULD MATCH THE EXISTING WIDTH AT THE PROPERTY LINE BUT UNLESS AUTHORIZED BY THE CITY TRAFFIC ENGINEER, THE WIDTH SHALL BE WITHIN THE FOLLOWING VALUES:

TYPE	MINIMUM	MAXIMUM
RESIDENTIAL	10'	20'
COMMERCIAL - ONE WAY	12'	20'
COMMERCIAL - TWO WAY	24'	30'

- FOR LOCAL TYPE "A" STREETS, SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND IF SEPARATED FROM THE CURB, THE SIDEWALK SHALL BE LOCATED A MINIMUM OF 2' FROM THE BACK OF CURB.
- FOR OTHER THAN LOCAL TYPE "A" STREETS, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 4' AND SEPARATED A MINIMUM OF 2' FROM THE BACK OF CURB OR, AS AN OPTION, THE SIDEWALK SHALL HAVE A MINIMUM WIDTH OF 6' WHEN LOCATED AT THE BACK OF CURB.
- DUMMY JOINTS PARALLEL TO THE CURB SHALL BE PLACED WHERE THE SIDEWALK MEETS THE DRIVEWAY. DUMMY JOINTS PERPENDICULAR TO THE CURB, AND WITHIN THE BOUNDARIES OF THE PARALLEL DUMMY JOINTS, SHALL BE PLACED AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK.
- A MINIMUM OF TWO ROUND AND SMOOTH DOWEL BARS 3/4" IN DIAMETER AND 18" IN LENGTH SHALL BE SPACED 18" APART AT EACH EXPANSION JOINT.
- SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE. WHERE SIDEWALKS CROSS DRIVEWAYS, SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
- SIDEWALK RAMP SURFACE SHALL BE BRUSH FINISHED.



DRIVEWAY - CONCRETE RETAINING WALL
ON COMPACTED SUBGRADE
ITEM 307.1

- NOTE:
- COST OF REINFORCEMENT TO BE INCLUDED IN UNIT COST OF ITEM 307.1.
 - CONCRETE RETAINING WALL COMBINATION TYPE SHALL BE USED FOR CONCRETE DRIVEWAYS.

MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

CONCRETE DRIVEWAY STANDARDS

DRWN. BY: V. VASQUEZ, DSGN. BY: _____, CHKD. BY: R.S. HOSSEINI, P.E. SHEET NO. _____ OF _____

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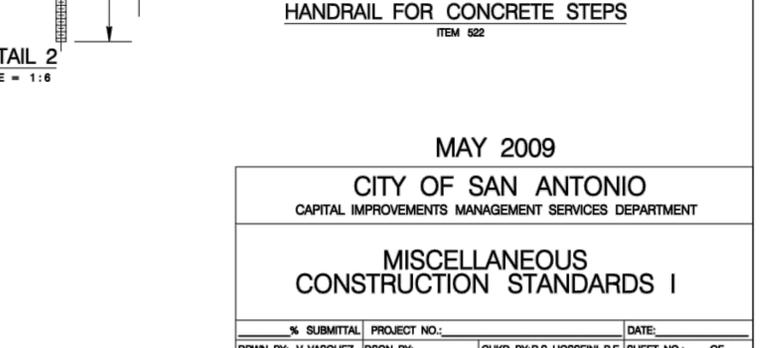
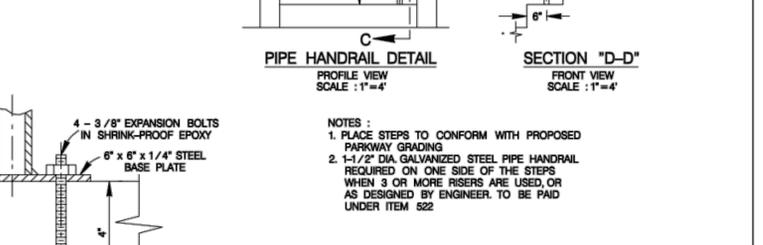
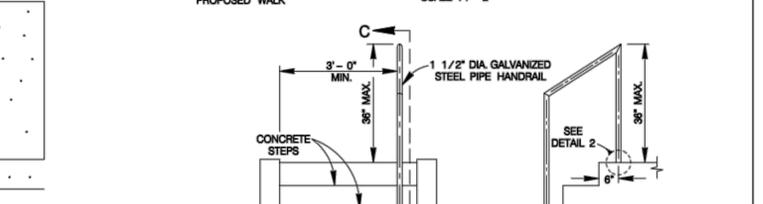
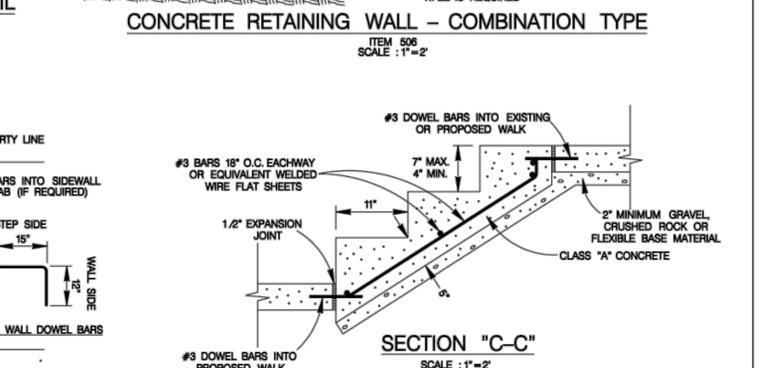
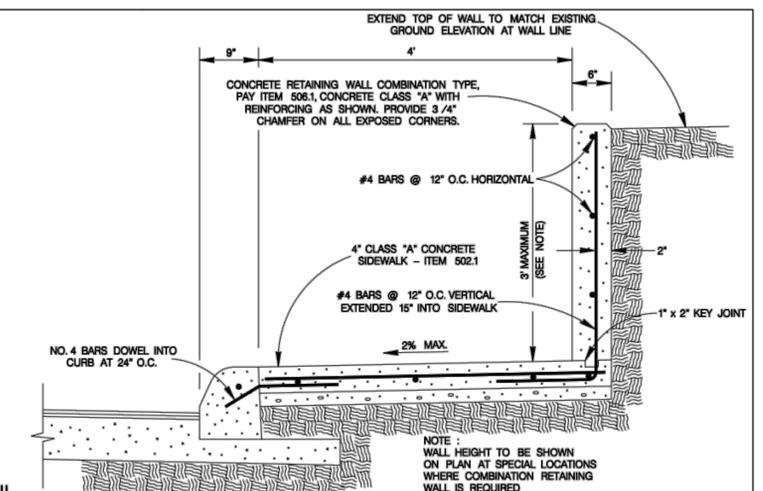
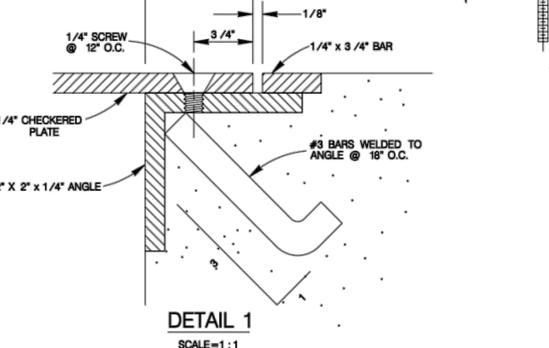
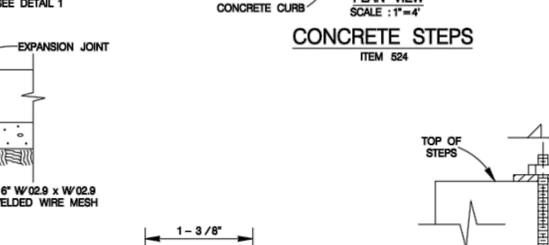
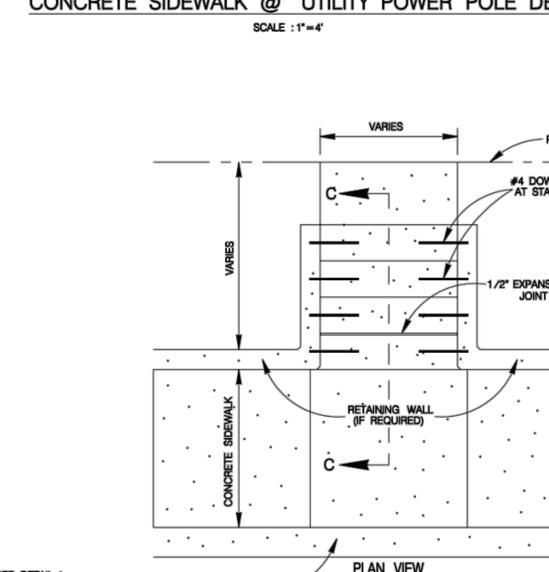
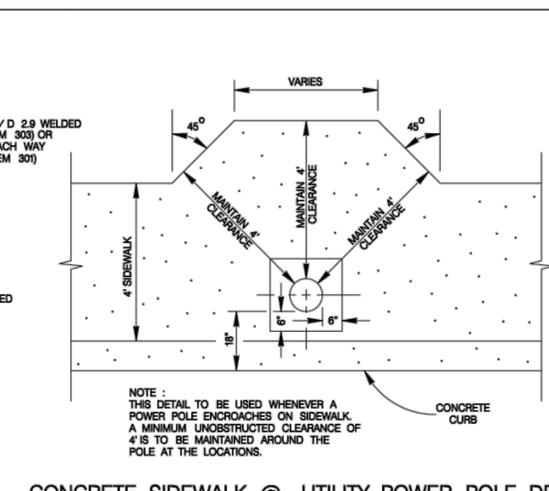
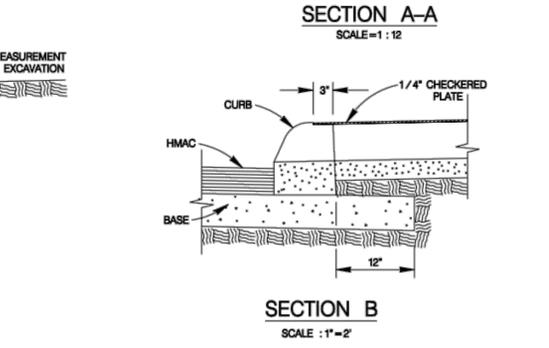
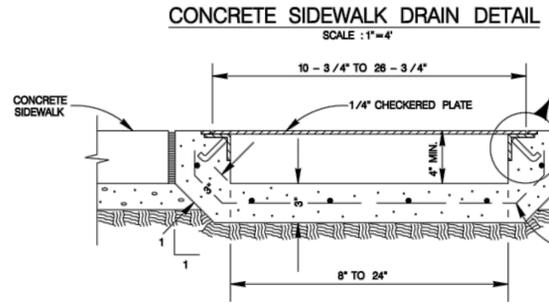
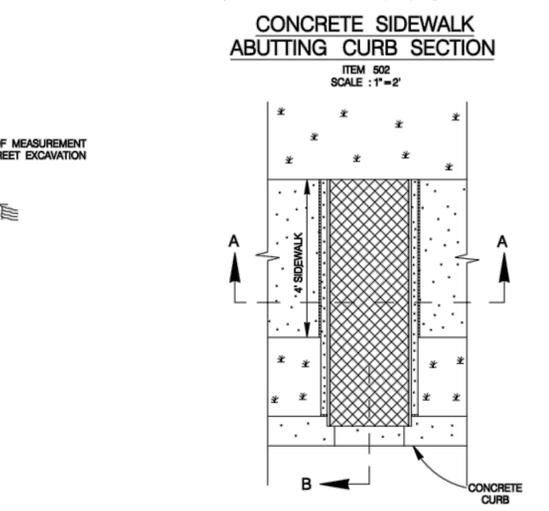
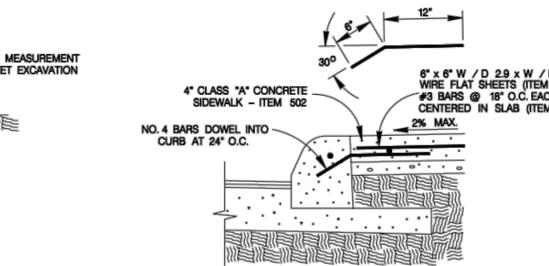
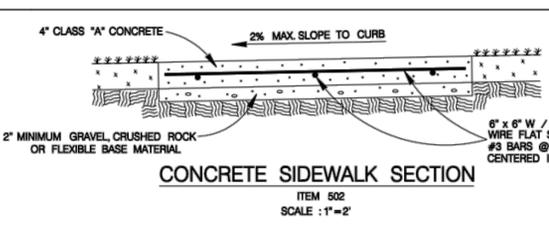
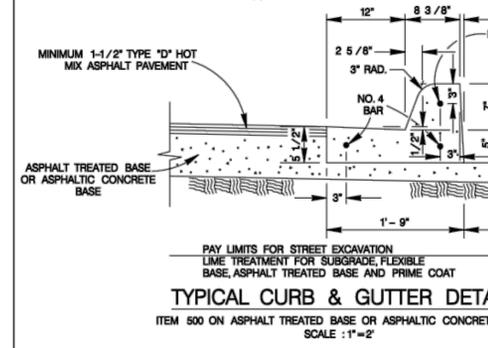
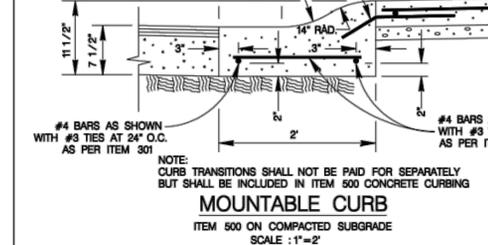
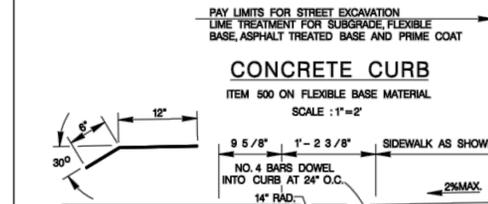
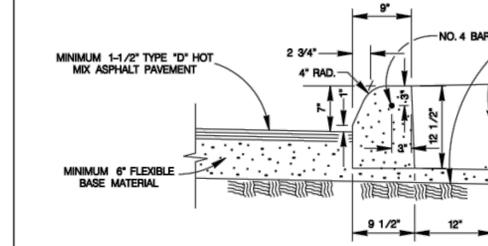
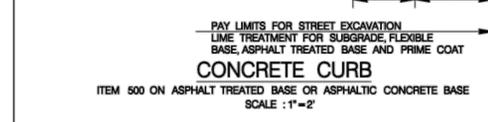
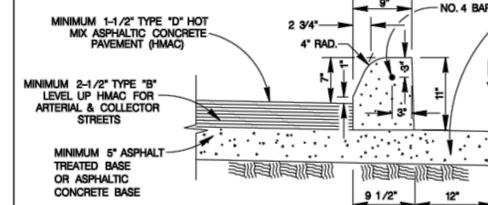
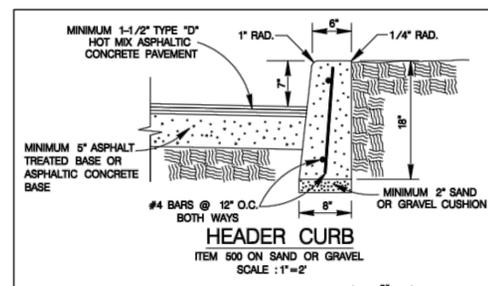
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ENGINEERING SURVEYING PLANNING
18827 WYE DRIVE, STE. 104, SAN ANTONIO, TEXAS 78217 P: (210) 560-4777 F: (210) 560-4900
WWW.FORDEENGINEERING.COM • TEMPLS No. 10018400

MARK B. HILL
94904
08-05-2016

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
COSA STANDARD DETAILS

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MAY 2009
CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MISCELLANEOUS CONSTRUCTION STANDARDS I

% SUBMITTAL	PROJECT NO.:	DATE:
DRWN. BY: V. VASQUEZ	DGSN. BY:	CHKD. BY: R.S. HOSSEINI, P.E.
SHEET NO.:		OF

FORD ENGINEERING INC.

ENGINEERING SURVEYING PLANNING

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WWW.FORDEENGINEERING.COM • TBA/LS No. 10018400

MARK B. HILL
94904
08-05-2016

HBGCC SOUTH PARKING LOT

CITY OF SAN ANTONIO

HENRY B. GONZALEZ CONVENTION CENTER

EXPANSION PROJECT

COSA STANDARD DETAILS

PROJECT NO. 1801.18

JULY 27, 2016

C5.2

PAINTED PAVEMENT MARKINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Parking lot markings, including parking bays, crosswalks, arrows, handicapped symbols, and curb markings.

1.2 REFERENCE STANDARDS

- A. MPI (APL) - Master Painters Institute Approved Products List; Master Painters and Decorators Association; current edition, www.paintinfo.com.
- B. FHWA MUTCD - Manual on Uniform Traffic Control Devices for Streets and Highways; U.S. Department of Transportation, Federal Highway Administration; http://mutcd.fhwa.dot.gov; current edition.

1.3 SUBMITTALS

- A. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Deliver paint in containers of at least 5 gallons accompanied by batch certificate.
- B. Store products in manufacturer's unopened packaging until ready for installation.
- C. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

1.5 FIELD CONDITIONS

- A. Do not install products under environmental conditions outside manufacturer's absolute limits.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Line and Zone Marking Paint: MPI No. 97 Latex Traffic Marking Paint; color(s) as indicated.
- B. Temporary Marking Tape: Preformed, reflective, pressure sensitive adhesive tape in color(s) required; Contractor is responsible for selection of material of sufficient durability as to perform satisfactorily during period for which its use is required.

PART 3 EXECUTION

3.1 PREPARATION

- A. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Clean surfaces thoroughly prior to installation.
 - 1. Remove dust, dirt, and other granular surface deposits by sweeping, blowing with compressed air, rinsing with water, or a combination of these methods.
- C. Where oil or grease are present, scrub affected areas with several applications of trisodium phosphate solution or other approved detergent or degreaser, and rinse thoroughly after each application; after cleaning, seal oil-soaked areas with cut shellac to prevent bleeding through the new paint.
- D. Establish survey control points to determine locations and dimensions of markings; provide templates to control paint application by type and color at necessary intervals.
- E. Temporary Pavement Markings: When required or directed by Engineer, apply temporary markings of the color(s), width(s) and length(s) as indicated or directed.
 - 1. After temporary marking has served its purpose, remove temporary marking by carefully controlled sandblasting, approved grinding equipment, or other approved method so that surface to which the marking was applied will not be damaged.
 - 2. At Contractor's option, temporary marking tape may used in lieu of temporary painted marking; remove unsatisfactory tape and replace with painted markings at no additional cost to Owner.

3.2 INSTALLATION

- A. Begin pavement marking as soon as practicable after surface has been cleaned and dried.
- B. Do not apply paint if temperature of surface to be painted or the atmosphere is less than 50 degrees F or more than 95 degrees F.
- C. Apply in accordance with manufacturer's instructions using an experienced technician that is thoroughly familiar with equipment, materials, and marking layouts.
- D. Comply with FHWA MUTCD manual (http://mutcd.fhwa.dot.gov) for details not shown.
- E. Apply markings in locations determined by measurement from survey control points; preserve control points until after markings have been accepted.
- F. Apply uniformly painted markings of color(s), lengths, and widths as indicated on the drawings true, sharp edges and ends.
 - 1. Apply paint in one coat.
 - 2. Wet Film Thickness: 0.015 inch, minimum.
 - 3. Width Tolerance: Plus or minus 1/8 inch.
- G. **Apply second coat, 0.015 inch application @ 60 days after first application. Follow instructions above.**
- H. Parking Lots: Apply parking space lines, entrance and exit arrows, painted curbs, and other markings indicated on drawings.
 - 1. Mark the International Handicapped Symbol at indicated parking spaces.

2. Hand application by pneumatic spray is acceptable.

- I. Symbols: Use a suitable template that will provide a pavement marking with true, sharp edges and ends, of the design and size indicated.

3.3 DRYING, PROTECTION, AND REPLACEMENT

- A. Protect newly painted markings so that paint is not picked up by tires, smeared, or tracked.
- B. Provide barricades, warning signs, and flags as necessary to prevent traffic crossing newly painted markings.
- C. Allow paint to dry at least the minimum time specified by the applicable paint standard and not less than that recommended by the manufacturer.
- D. Remove and replace markings that are applied at less than minimum material rates; deviate from true alignment; exceed length and width tolerances; or show light spots, smears, or other deficiencies or irregularities.
- E. Remove markings in manner to avoid damage to the surface to which the marking was applied, using carefully controlled sand blasting, approved grinding equipment, or other approved method.
- F. Replace removed markings at no additional cost to Owner.

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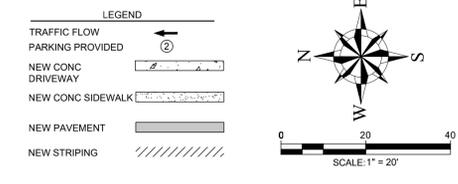
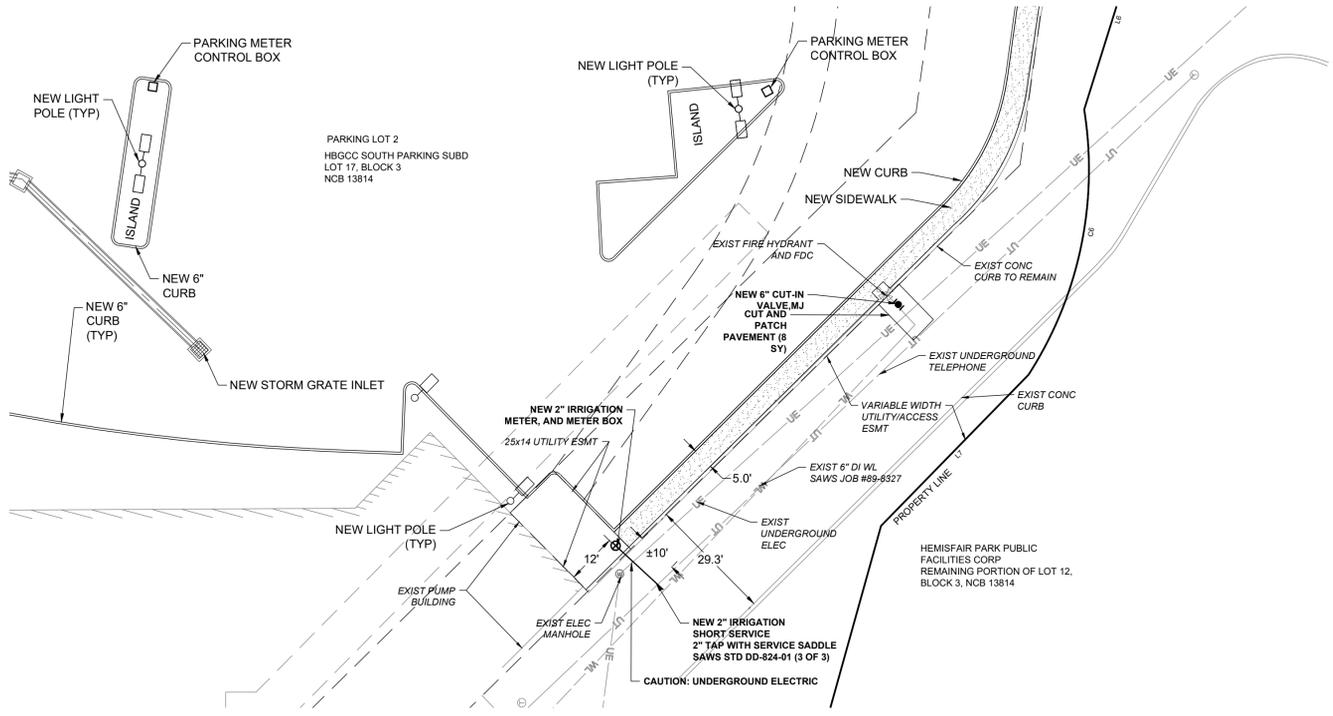
MARK B. HILL
94904
08 - 05 - 2016

REVISIONS :

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
CITY OF SAN ANTONIO
HENRY B. GONZALEZ CONVENTION CENTER
EXPANSION PROJECT
SPECIFICATIONS

PROJECT NO. 1801.18
JULY 27, 2016
C5.3



- GENERAL WATER NOTES**
- All materials and construction procedures within the scope of this project shall be approved by the San Antonio Water System (SAWS) and comply with the following as applicable:
 - Current "San Antonio Water System Standard Specifications for Construction"
 - Current "San Antonio Water System Utility Service Regulations"
 - Current City of San Antonio "Standard Specifications for Public Works Construction"
 - Current TxDOT "Standard Specifications for Construction of Highways, Streets and Drainage"
 - Current City of San Antonio "Right - Of - Way Ordinance and Criteria Manual"
 - The Contractor shall not proceed with any pipe installation work until they obtain a copy of the approved G.C.P. from the Consultant and has been notified by SAWS Construction Inspection Division to proceed with the work and has arranged a meeting with the inspector and consultant for the work requirements.
 - The locations and depths of existing utilities, including service laterals, and drainage structures shown on the plans are approximate only. The Contractor shall verify the exact location and depths of underground utilities at least 48 hours prior to construction whether shown on plans or not, and to protect the same during construction.
- San Antonio Water System (Water, Sewer & Recycle Water) 233-2010
 COSA Drainage 207-8052
 City Sidewalk and Trenching Division 821-3240
 COSA Traffic Signal Operations 207-7765
 *Texas State Wide One Call Locator 1-800-545-6005
 City Public Service South Western Bell
 Time Warner
 Valero Energy Co.

San Antonio Water Systems Note:
 Location and depth of existing water and sewer mains and services shown on the plans are approximate only. Actual locations and depths must be verified by the contractor 48 hours prior to beginning construction by calling the SAWS water line locator at 210-233-2010. The contractor should exercise extreme caution when working near existing water facilities, and should they be damaged during construction operations, the contractor will be required to reimburse the San Antonio water system for the total cost to repair or replace the damaged facilities.

Trench Excavation Safety Protection
 Contractor and/or contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement contractor's trench excavation safety protection systems, programs and/or procedures for the project described in the contract documents. The contractor's implementation of these systems, programs and/or procedures shall provide for adequate trench excavation safety protection that comply with as a minimum, OSHA standards for trench excavations. Specifically, contractor and/or contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA standards governing the presence and activities of individuals working in and around trench excavation.

City Public Service Note:

- Call CPS locator at 878-3500 48 hours before beginning any excavation.
- Due to federal regulation title 49, part 192.181, CPS must maintain access to gas valves at all times. The contractor must protect and work around any gas valves that are in the project area.

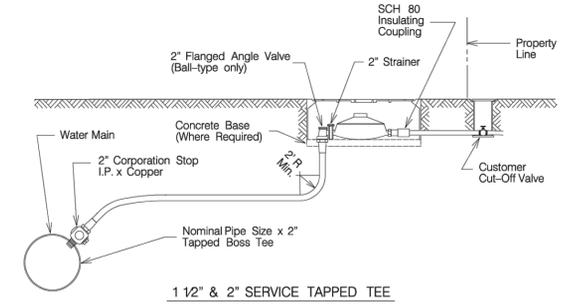
ATT Note
 The existence and location of underground cable indicated on the plans are taken from the best records available and are not guaranteed to be accurate. Contractor to contact the telephone company cable locator 48 hours prior to excavation at 1-800-828-5127. Contractor to protect and support telephone company plant during construction.

Standard A.C. pipe note (TXDOT JOBS):
 G-5-2 Asbestos Cement (AC) Pipe Tie-ins:
 There are several locations where the proposed water line will tie into an existing AC pipe. When performing this work, the Contractor shall observe and comply with all federal, state and local laws, ordinances and regulations regarding the management of asbestos containing materials. At the minimum, work involving AC pipe should be overseen by a person who has received asbestos training and is familiar with the National Emissions Standards for Hazardous Air Pollutants (NESHAP). If greater than 260 linear feet of pipe is to be removed, written notification to the Texas Department of Health (TDH) 10 days prior commencing with the removal of AC pipe is required. At each location shown in the plans and/or identified by the Contractor to involve AC pipe, the Contractor will be required to remove the necessary amount of AC pipe to make the connection without creating any friable material. The Contractor shall remove whole sections of AC pipe and make the tie-in at the nearest joint. The Contractor shall remove the AC pipe and store it in a secure, Engineer approved location for pick up by the owner of the utility. Prior to performing this work, the Contractor shall notify the Engineer and the owner of the utility of the work schedule 48 hours in advance of beginning the work.

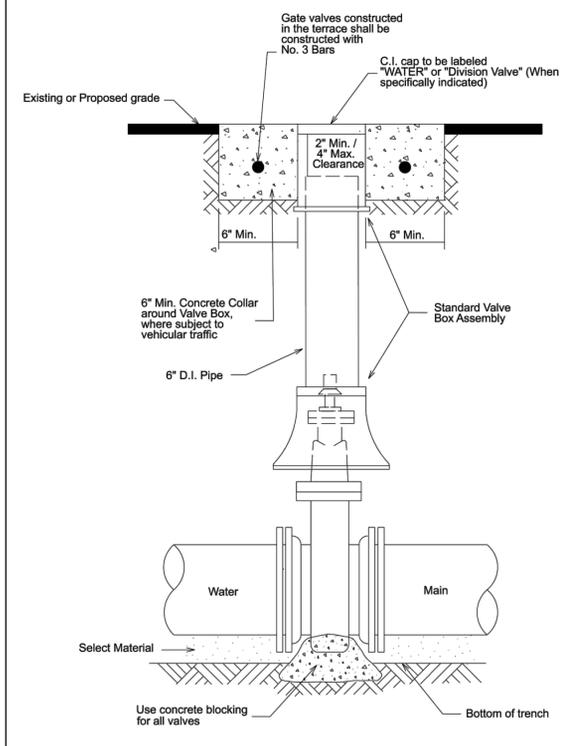
Note:
 Do not sawcut A.C. pipe. Remove joints at A.C. collars. Removed A.C. joints to be disposed of at special City of San Antonio site.

- SUPPLEMENTARY**
- No extra-payment shall be allowed for work called for on the plans but not included on the bid schedule. This incidental work will be required and shall be included under the pay item to which it relates.
 - The Developer dedicates the water mains upon completion by the Developer and acceptance by the San Antonio Water System. The San Antonio Water System will own and maintain said water mains which are located within this particular subdivision. (As applicable)
 - Contractor and/or Contractor's independently retained employee or structural design/geotechnical/safety/equipment consultant, if any, shall review these plans and available geotechnical information and the anticipated installation site(s) within the project work area in order to implement Contractor's trench excavation safety protection systems, programs and/or procedures. The Contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA Standards for trench excavations. Specifically, Contractor and/or Contractor's independently retained employee or safety consultant shall implement a trench safety program in accordance with OSHA Standards governing the presence and activities of individuals working in and around trench excavation.
 - WORK COMPLETED BY THE CONTRACTOR WHICH HAS NOT RECEIVED A WORK ORDER OR THE NOTICE TO PROCEED WITH THE SAN ANTONIO WATER SYSTEM CONSTRUCTION INSPECTION DIVISION WILL BE SUBJECT TO REMOVAL AND REPLACEMENT BY AND AT THE EXPENSE OF THE CONTRACTOR.**
 - The contractor will keep the area on top of and around the water meter box free of all objects and debris.
 - Water System to be completely restrained. Restrained length calculations are for P.V.C. pipe bedded in compacted granular material extending to the top of the pipe. The native soil material is assumed to be inorganic clay of high plasticity. Depth of bury is assumed to be 4 feet. Note: These calculations are provided for reference. The restrained lengths shall be designed based upon the conditions encountered during the installation. See SAWS Specification Book

PIPE DIAMETER	SERVICE SIZE			
	3/4"	1"	1 1/2"	2"
6" A.C.	Tap With Service Saddle			
6" C.I. or D.I.	Tap	Tap	Tap With Service Saddle	Tap With Service Saddle
8" A.C.	Tap With Service Saddle			
8" C.I. or D.I.	Tap	Tap	Tap With Service Saddle	Tap With Service Saddle
8" PVC	Tap With Service Saddle			
10" A.C.	Tap With Service Saddle			
10" C.I. or D.I.	Tap	Tap	Tap With Service Saddle	Tap With Service Saddle
10" PVC	Tap With Service Saddle			
12" A.C.	Tap With Service Saddle			
12" C.I. or D.I.	Tap	Tap	Tap With Service Saddle	Tap With Service Saddle
12" PVC	Tap With Service Saddle			
16" A.C.	Tap With Service Saddle			
16" C.I. or D.I.	Tap	Tap	Tap With Service Saddle	Tap With Service Saddle



Note:
 For direct tap to main, see Tapping Schedule



NOTE: All Concrete to be 3,000 psi

Note: For all work associated with recycled water valves, refer to DD-110-10, Sheet 1 of 1

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	COPPER SERVICE INSTALLATION TAPPING SCHEDULE	APPROVED March 2008	REVISED
DD-824-01		SHEET 3 OF 3	

PROPERTY OF SAN ANTONIO WATER SYSTEM SAN ANTONIO, TEXAS	INSTALLATION OF NON-GEARED GATE VALVE WITH VALVE BOX AND EXTENSION	APPROVED MARCH 2008	REVISED APRIL 2014
DD-828-01		SHEET 1 OF 1	

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MARK B. HILL
 94904
 08-05-2016

NO.	DATE	DESCRIPTION

HBGCC SOUTH PARKING LOT
 CITY OF SAN ANTONIO
 HENRY B. GONZALEZ CONVENTION CENTER
 EXPANSION PROJECT
 UTILITY PLAN - WATER - LOT 2

PROJECT NO. 1801.18
 JULY 27, 2016
C6.0